



KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

Nandinagar, P.B. No. 6, BIDAR-585 401. Karnataka, India

11th Annual Report

2015-16

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Publisher
Prof. R.V. Prasad
Vice-Chancellor

Chief Editor
Dr. S.M. Shivaprakasha
Director of Extension

Associate Editors
Dr. D. Dilipkumar
ADE, KVAFSU, Bidar Campus

Secretarial Assistance
Sri. Suresh Ghule

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Preface

It gives me great pleasure to recognize that our University is progressing well in all its three major missions namely, Teaching, Research and Extension. Taking the queue from the ICAR's Farmer First concern, our University is making all efforts to empower the farmer with animal husbandry technologies. In this direction, our University has published 31 farmer literature books in Kannada highlighting most of the animal husbandry technologies which a farmer can easily understand and what's more each book is priced at only Rs. 20/-! so that a farmer can easily afford. I am happy to state that these books are in popular demand at all the centers of our university. Moreover, Hyderabad-Karnataka Area Development Board, Kalaburagi has placed an order for 38000 copies of the same for distribution among Gram Panchayat Libraries of six districts namely, Bidar, Kalaburagi, Yadgiri, Raichur, Ballari and Koppal. We are in the process of reprinting the same. It is gratifying to note that the farmer literature books are reaching the hands of farmers in remote villages of these districts.

I am also happy that our University has successfully organized a grand State Level Mathsya Mela-2016 during 4-6 March, 2016 at Mangaluru which was witnessed by nearly one lakh people. The exhibition showcased technologies of Shrimp farming, Cage culture, Commercial fish culture etc., by various central and state organizations. The star attraction of the event was the display of more than 100 attractive aquariums of both traditional and modern designs. During the fair, fabrication of nature aquariums was demonstrated by experts. An angling competition was also held for enthusiastic fish anglers at Pillikula Lake.

An Interface Meet between the Scientists of ICAR-Indian Veterinary Research Institute and Veterinary College, Bidar was organized with the Veterinary Officers of Department of Animal Husbandry from Bidar and adjoining districts of Karnataka State on 26th July 2016 at Bidar. Our university organized an Animal Health Camp-cum-Kisan Goshthi in collaboration with IVRI, Pune; Krishi Vigyan Kendra; Reliance Foundation and Gurupadappa Nagamarapalli Foundation in Gadagi village of Bidar district of Karnataka on 27th July, 2016. More than 500 cattle were treated for various diseases including a surgery performed on the spot during the Animal Health Camp. On this occasion 30 progressive farmers in animal husbandry and dairy technology were also felicitated.

The pride of our University lies in the service extended to our farmers in the form of saving the lives of valuable animals through surgeries at all the campuses of our University. Another feather in our cap is the execution of World Bank aided KWDP-Sujala-III project in seven backward districts namely, Bidar, Kalaburagi, Yadgiri, Gadag, Chamrajnagar, Davanagere and Koppal through livestock support and extension activities in farmers' fields itself. These success stories are becoming the "Hot Spots" and are serving as the inspiration for other farmers to adapt.

Hope that more and more such farmer oriented extension programmes and research activities will be undertaken in the coming days to solve the burning issues of the Animal Husbandry, Dairy and Fisheries Sectors.

Place: Bidar

Sd/-
(R.V. Prasad)
Acting Vice-Chancellor



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I am very happy that these days many are openly expressing anguish over the second class treatment being meted out to extension education in the country. Much has been spoken about its importance especially in agriculture and animal husbandry sectors. So far as recent developments in Karnataka are concerned, programmes such as Sujala Phase-III, Rashtriya Krishi Vikas Yojana (RKVY), ATMA Schemes, Watershed Development Programmes, activities initiated by Agriculture Skill Council of India etc. are the pointers to suggest that it augurs well! Agricultural Universities are currently engaged passionately in all these components. Many more such well conceived programmes are the need of the hour to help farmers to adapt new technologies to improve their economic conditions.

Our Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar, for instance, has embarked on some of the meaningful programmes by allocating reasonably good sum of funds from agencies such as ICAR, NFDB, KVC, State Government Funds (garnered through persistent follow up) to all our Research & Information Centers, Colleges, Institutions, Extension Education Centers of our University to carry out 1. Training to farmers and veterinary field officers, 2. Field demonstrations, 3. Field days, 4. Farmer-Scientist meets, 5. Animal Health Camps at villages, 6. Krishi-Horti-Pashu & Matsya Melas, 7. Workshops to update technical knowledge and latest skills, 8. Exposure visits, 9. Model Training Programmes, 10. Radio & TV Programmes, 11. Farmer field schools, 12. Entrepreneurs day and job melas, 13. Publication of farmer literature etc.

After the successful publication of 31 farmer literature books on Animal Husbandry, Dairy and Fisheries technologies under '**Technology into the hands of farmers**' series by our Directorate, I am happy to state that we are poised to bring out 25 more publications this year containing exclusively the "**Success stories**" of farmers.

Thus, in our own humble way, we are encouraging our scientists to engage in more and more extension programmes aimed at increasing the income of farmers through animal husbandry intervention. As the saying goes, "**World rejoices when farmer smiles!**". Our endeavor also is to bring smiles on farmers through extension service. Dissemination of technologies through field demonstrations in farmers' field itself helped us to easily convince farmers to adapt the technologies.

As an icing on the cake, here is what Nobel Laureate, Dr. Switzer has said "**Do you say that example is the main thing that influences, No, it is the only thing influences**". Hence, all our efforts in extension should be aimed at demonstrating the efficacy of the technology in the field for the benefit of farmers who will adapt the same later in their fields after seeing its success. Yes, setting an example of success in the field is the first step for farmers to adapt it.

Place: Bidar

Sd/-
(S.M. Shivaprakasha)
Chief Editor & Director of Extension



Mandate of the University

The prime objective and mandate of the University are to uplift the rural livestock, poultry and fish farmers with a motto of “Rural oriented and Farmer Friendly Activities”. The university has a territorial jurisdiction of entire state of Karnataka covering the 30 districts. The major objectives of the university include,

- ❖ To impart higher quality education in different branches of study, particularly veterinary and animal sciences, fisheries and other allied sciences.
- ❖ Advancement of learning and research, particularly in veterinary science, dairy science, fisheries science and other allied sciences to the rural people of the state
- ❖ To undertake the extension education service in veterinary and animal science, dairy science, fisheries science and other allied sciences to the rural people of the state.
- ❖ Such other purpose as the State Government may specify by notification.

Mission of the University

The Mission of the Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar, is to strive hard and provide leadership in teaching, research and extension education services related to veterinary, animal and fisheries to keep pace with new frontiers of science and contemporary developments with social and technical relevance. In this context, the Karnataka Veterinary, Animal and Fisheries Sciences University is strongly committed in absorbing newer paradigms and using them to develop excellent human resource, innovative technologies and their dissemination so as to serve the livestock and fish farming community of the state.



Governance

BOARD OF MANAGEMENT OF THE UNIVERSITY

Chairman : Dr. C. Renukaprasad, Vice-Chancellor

Ex- Officio Members:

The Principal Secretary to Govt. Department of AH & Fisheries or his nominee not below the rank of Joint Secretary.

The Principal Secretary to Finance Department of or his nominee not below the rank of Joint Secretary.

The Secretary to Govt. Law Department or his nominee not below the rank of Joint Secretary.

The Director of Animal Husbandry & Veterinary Services Govt. of Karnataka, Bengaluru

The Director of Fisheries, Govt. of Karnataka, Bengaluru.

The President, Karnataka Veterinary Council, Bengaluru

The Registrar of the University Member Secretary.

Other Members

<i>Members of the 4th Board of Management</i>	
<i>Sl. No.</i>	<i>Name of the Board Member</i>
1	Dr. Yogiraj, B. Patil
2	Sri. Nagabhushan Kamthane
3	Sri. Iresh Anchatageri
4	Sri. Mallikarjun Biradar
5	Smt. Mushtari Moyeen
6	Sri. Nagendra Prasad



OUR INSTITUTIONS

1. Colleges

- 1) Veterinary College, Hebbal, Bengaluru, established in 1958
- 2) Veterinary College, Nandi Nagar, Bidar, established in 1984
- 3) Veterinary College, Shivamogga, established in 2006
- 4) Veterinary College, Hassan, established in 2007
- 5) Dairy Science College, Hebbal, Bengaluru, established in 1980
- 6) Dairy Science College, Kalaburagi, established in 2008
- 7) Fisheries College, Mangaluru, established in 1969
- 8) Veterinary College, Gadag (to be established)
- 9) Veterinary College, Athani, Belgaum (to be established)
- 10) Veterinary College, Puttur, Dakshina Kannada (to be established)

2. Animal Husbandry Polytechnics

- 1) Animal Husbandry Polytechnic, Konehalli, Tiptur
- 2) Animal Husbandry Polytechnic, Shiggaon, Haveri

3. Research Institute

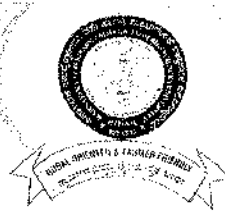
- 1) Institute of Animal Health and Veterinary Biologicals, Hebbal, Bengaluru, established in 1926
- 2) Institute of Wild Life Veterinary Research, (IWVR) Kudige, Dist. Coorg
- 3) Livestock Research and Information Center, (Deoni), Hallikhed, Bidar
- 4) Livestock Research and Information Center (Amruth Mahal and Hallikar), Konnehally, Tiptur
- 5) Livestock Research & Information Center (Sheep), Nagamangala.
- 6) Livestock Research & Information Center (Buffalo), Dornally, Yadgir
- 7) Canine Research and Information Center Timmapur, Mudhol, Bagalkot
- 8) Fisheries Research & Information Center, Hebbal, Bengaluru.
- 9) Fisheries Research & Information Center (Inland), Hesaraghatta
- 10) Fisheries Research and Information Centre, (Marine), Ankola, Uttar Kannada
- 11) Fish seed Production far, Shivapura, Koppal (to be taken over / established)
- 12) Rural Veterinary Hospital, Yelahanka, Bengaluru

3. Krishi Vigyan Kendra

- 1) Krishi Vigyan Kendra, Dakshina Kannada

4. Extension Education Centers/ Institutes

- 1) Extension education Center, Bengaluru
- 2) Extension Education Center, Bidar
- 4) Extension Education Center, Hassan
- 5) Extension Education Center, Shivamogga
- 6) Farmer's Training Institute, Bidar



Officers of the University during the period (2015- 2016)

1	Vice-Chancellor, KVAFSU, Bidar	Dr. C. Renukprasad
2	Registrar, KVAFSU, Bidar	Dr. H. M. Jayaprakash
3	Comptroller, KVAFSU, Bidar	Dr. N.A. Patil Mr. Mallikarjun Ligade
4	Director of Extension, KVAFSU, Bidar	Dr. S.M. Shivaprakasha
5	Director of Research, KVAFSU, Bidar	Dr. S.M. Usturge
6	Director of Instruction (PGS), KVAFSU, Bidar	Dr. U.S. Biradar
7	Controller of Examinations, KVAFSU, Bidar	Dr. M.M. Appannavar
8	Director of Student Welfare, KVAFSU, Bidar	Dr. B.V. Shivaprakash Dr. Yashwanth Kumar
9	University Librarian (I/c), KVAFSU, Bidar	Dr. U.S. Jadhav
10	Dean, Veterinary College, Bidar	Dr. B.V. Shivaprakash
11	Dean, Veterinary College, Bengaluru	Dr. S. Yathiraj
12	Dean, Veterinary College, Shivamogga	Dr. R.V. Prasad
13	Dean, Veterinary College, Hassan	Dr. M.S. Vasant
14	Dean, Dairy Science College, Bengaluru	Dr. Narasimha Murthy
15	Dean, College of Fisheries, Mangaluru	Dr. K. M. Shankar
16	Director, IAH&VB, Hebbal, Bengaluru	Dr. S.M. Byregowda
17	Director, IWVR, Doddaluvara, Kodagu	Dr. Ganesh Udupa
18	OSD, Dairy Science College, Mahagaon, Kalaburagi	Dr. D.B. Puranik
19	OSD, Veterinary College, Gadag	Dr. K.C. Veeranna
20	OSD, Veterinary College, Athani	Dr. N.A. Patil
21	OSD, Veterinary College, Puttur	Dr. M.S. Vasantha
22	Head of Division, Pre & Para Clinical Sciences	Dr. Placid, E. D'Souza
23	Head of Division, Clinical Sciences	Dr. M. Narayana Bhat
24	Head of Division, Animal and Poultry Sciences	Dr. K. Chandrapal Singh
25	Head of Division, Fisheries Science	Dr. B.A. Shamsunder
26	Head of Division, Dairy Science	Dr. Lalit Achot
27	Head, PPMC, KVAFSU, Bidar	Dr. T. Tirumalesh
28	Estate Officer, KVAFSU, Bidar	Sri. M. K. Satish
29	Executive Engineer, KVAFSU, Bidar	Sri. Ramappa Korwar



Executive Summary

'Animal wealth is Nation's wealth'.

In order to realize this and to accomplish productivity in animal husbandry, dairying, poultry and fisheries, Government of Karnataka embarked on starting the state's first Veterinary, Animal & Fisheries Sciences University at Bidar in the year 2005. With its motto of 'Rural Oriented & Farmer Friendly', the University has initiated several measures to help farmers to improve their livelihood security through livestock activities. Further, in Veterinary and Animal Sciences 67 obtained Master's degree and 24 received Doctoral degrees. In Dairy Science 06 obtained Master's degree and 02 received Doctoral degree. In Fisheries, 22 have taken Master's degree and 11 awarded Doctoral degrees.

Education

Education is the prime concern of the University. The teaching activities are being carried out in three major disciplines at five campuses through seven colleges under the jurisdiction of this University. Undergraduate degree programmes in Veterinary and Animal Husbandry are being offered at Bidar, Bengaluru, Shivamogga and Hassan, while, Dairy Science & Technology at Bengaluru and Kalaburagi and similarly, Fisheries Science at Mangaluru. In addition to these, the Government of Karnataka has sanctioned three more Veterinary Colleges at Gadag, Athani and Puttur, which are at different stages of development. Further, two Animal Husbandry Polytechnics are functioned at Konehalli of Tumkuru district and Shiggaon of Haveri district.

The University offers Masters programme in 18 disciplines and Doctoral programme in 14 disciplines in Veterinary and Animal Sciences. In Dairy Science 03 Master's and 03 Doctoral programmes are currently underway. Similarly, in Fisheries

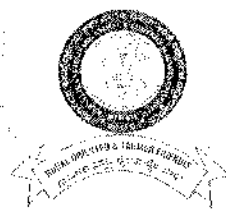
Science 06 Masters and 05 Doctoral degree programmes are being offered.

Admission under various degree programmes to KVAFSU was undertaken during 2015-16 and the intake was 390 students. Among 390 under graduate students, admitted to various degree programmes 296 were for BVSc&AH degree at Bengaluru, Bidar, Shivamogga and Hassan campuses and 58 for B.Tech (Dairy). Degree and 36 for Bachelor in Fisheries Science Degree. A total 100 students were admitted for Animal Husbandry Polytechnics at Shiggaon and Konehalli respectively.

A good number of graduates of this University qualified in ICAR Junior Research Fellowship and secured PG admissions in many prestigious institutes like IVRI, CIFE, NDRI and also in overseas Institutions.

Research

"Research without extension is hobby, but extension without research is shallow and teaching without research and extension is hollow". But, KVAFSU being a farm varsity, it carries out teaching, research and extension under its three tier system to enable its pupils to come out with good knowledge practical exposure to become entrepreneurs. Further, the teachers, scientists and extension functionaries will be able to address field oriented problems to find suitable solutions through research and practical demonstrations. KVAFSU has been operating 55 no. of Research projects amounting to Rs. 1965.48 lakhs with the funding support from State Government, GOI, Dept. of Bio-technology, ICAR, private institutions and National and International organizations. During 2015-16 as many as 55 No. of Research Projects have been completed worth Rs. 1965.48 lakhs. Besides, 116 no. of ongoing projects



amounting to Rs.6012.608 lakhs are in progress.

In order to cater to the needs of farmers in rural areas, the University has been carrying out need based research in various institutes and also established Research & Information Centers across the state. Our scientists of the University have published 739 no. of research papers in journals of National and International repute. Our scientists have developed several diagnostic kits, vaccines for diagnosis and prevention of diseases in animals, poultry and fisheries sector.

To strengthen the research activities within the University and to provide opportunities for scientists and students of the University, the University has been making efforts to collaborate with National and International organizations. In this direction, the University has signed four MoUs with National organizations. It is hoped that the collaborative works will be of immense value to the society.

Extension

The University has established Extension Education Centers (EECs) at Bengaluru, Bidar, Shivamogga and Hassan Campuses for the transfer of technologies developed by KVAFSU scientists to the un-reached farming community. The University is propagating and popularizing its technologies to the farmers through series of training programmes, demonstrations, animal health camps, field days, farmer-scientists interaction, awareness programmes, treatment of medical, surgical and reproductive problems at Veterinary Colleges, Krishimelas, Farmers Meet, Village adoption, Publication of folders,

Bulletins and Books on Package of practices in local language for the benefit of farming community and News Letters and Annual Reports of the University. Besides farmers, the university also trains departmental staff / KVK. SMSs regarding latest technological advancements and shares the knowledge with neighboring state's scientists through model training courses etc.

A total of 119 Radio/TV programmes were given of which 55 were Radio talks and 64 were TV programmes. A total of 59 Animal Health Camps were conducted and 4730 animals were treated in the camp. A total of 84 demonstrations were conducted and 56 staff participated in Pashu/Matsya Mela. A total of 1,19,586 services were provided to the farmers and diagnostic services provided were 72,540. A total of 221 Training Programmes / Workshops / Conference / Seminars were conducted in 2015-16 and a total of 620 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Resource Scientists and 236 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Trainee Scientists.

The most significant part of University's extension is the health care being extended by our doctors to the ailing cattle of farmers. Innumerable surgeries are performed on small and large animals by our doctors thereby saving the lives of animals that are the economic backbone of farmers.



IMPORTANT MEETINGS HELD AT KVAFSU, BIDAR DURING 2015-16

#	Meetings	Date	Place
Board of Management Meetings			
1	Special BOM	27.04.2015	Bengaluru
2	71 st Meeting of BOM	25.08.2015	Bidar
3	72 nd Meeting of BOM	22.09.2015	Bidar
4	73 rd Meeting of BOM	09.10.2015	Bidar
5	74 th Meeting of BOM	30.03.2016	Bengaluru
Academic Council Meetings			
1	23 rd Meeting of Academic Council	12.09.2015	Bidar
2	24 th Meeting of Academic Council	08.10.2015	Bidar
Planning and Works Committee Meetings			
1	23 rd Meeting of Planning and Works Committee	19.08.2015	Bidar
Finance Committee Meetings			
1	33 rd Finance Committee Meeting	21.08.2016	Bengaluru

A Mega Mathsya Mela along with “Krishi, Totagarike and Jaanuvaru Mela-2015” held at KVK, Janawada, Bidar during 11-13th December, 2015

A mega Mathsya Mela was organized at KVK, Bidar by the Karnataka, Veterinary, Animal and Fisheries Sciences University, Bidar with the financial support from the Department of Fisheries, Government of Karnataka, Bengaluru as part of Krishi Mela during 11-13th December, 2015. The mela attracted thousands of people including farmers, public and school children. It was described as one of the biggest mela held in Hyderabad-Karnataka Region as mentioned in media.

The highlight of the mela was display of colorful very rare ornamental fishes obtained from Shivamogga, Bengaluru and Kolkatta. It was an opportunity for school children to observe the beauty and diversity of aquatic life of which they only had text book knowledge. More than 60 molded aquariums of different sizes were on display. The alligator gar was the center of attraction as it was very rare species. In the mela, three 'Best Fish Farmer' awards were given away (Mr. Srinivasrao, Sindhanoor; Mr. Chandrashekhar, Vijayapura and Smt. Shobha Veerabhadrapa Patil, Kalaburgi). These farmers shared their experiences in fish culture.

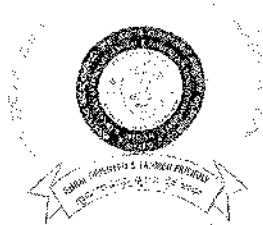


Besides, about 30 large and small animals such as cows, buffaloes, goats, sheep and horses were on display. These animals attracted the attention of farmers and they had exchanges of information about their performance. Overall, the mela was a huge success in that more than one lakh farmers and public benefited from the show. The electronic media and the press gave a wide publicity on all the three days of the mela.

A Mega Mathsya Mela-2015” held at Mangaluru during 4-6th March, 2016

A mega Mathsya Mela was organized at Mangaluru by the Directorate of Extension and College of Fisheries, Mangaluru with the financial support from the Department of Fisheries, Government of Karnataka, Bengaluru and National Fisheries Development Board, Hyderabad during 4-6th March, 2016. The mela attracted thousands of people including farmers, public and school children. It was described as one of the biggest mela held in Dakshina Kannada district as mentioned in media.

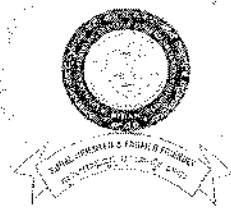
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I. EDUCATION

1) Teaching Institutions

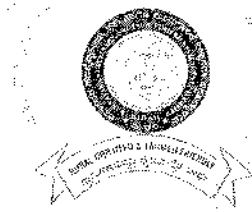
#	Teaching Institute with Location	Year of Establishment	Name of the Dean / Director / Principal	Degree Programmes Offered
1	Veterinary College, Bengaluru	1958	Dr. S. Yathiraj	B.V.Sc.&A.H. M.V.Sc. Ph.D.
2	Veterinary College, Bidar	1984	Dr. B.V. Shivaprakash	B.V.Sc.&A.H. M.V.Sc. Ph.D.
3	Veterinary College, Shivamogga	2006	Dr. R.V. Prasad	B.V.Sc.&A.H. M.V.Sc.
4	Veterinary College, Hassan	2007	Dr. M.S. Vasantha	B.V.Sc.&A.H.
5	Dairy Science College, Bengaluru	1980	Dr. Narasimha Murthy	B.Tech. (D.Tech) M.Tech. (Dairy Science) Ph.D. (Dairy Science) MBA (Food & Dairy Business)
6	Dairy Science College, Kalaburagi	2008	Dr. D.B. Puranik	B.Tech. (D.Tech)
7	College of Fisheries, Mangaluru	1969	Dr. K. M. Shankar	B.F.Sc. M.F.Sc. Ph.D.
8	Institute of Wildlife and Veterinary Research, Kodagu	2007	Dr. Ganesh Udupa	M.V.Sc. (Wildlife)
9	Animal Husbandry Polytechnic, Konehalli, Tiptur	2011	Dr. Shivakumar, R.	Animal Husbandry Diploma
10	Animal Husbandry Polytechnic, Shiggaon, Haveri	2012	Dr. Shivakumar, K. Radder	Animal Husbandry Diploma



2) No. of Students admitted/on roll to Undergraduate degree programme

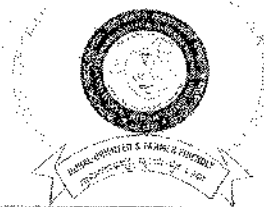
Sl. No.	Degree Programme	Year					No. Passed out	College / Institute
		I	II	III	IV	V		
1	B.V.Sc.&A.H.	85	43	51	85	52	52	Veterinary College, Bengaluru
2	B.V.Sc.&A.H.	67	43	53	55	41	52	Veterinary College, Bidar
3	B.V.Sc.&A.H.	60	31	52	46	47	47	Veterinary College, Shivamogga
4	B.V.Sc.&A.H.	84	47	39	46	50	40	Veterinary College, Hassan
5	B.Tech. (D.Tech)	37	37	36	43	NA	36	Dairy Science College, Bengaluru
6	B.Tech. (D.Tech)	21	21	20	20	NA	19	Dairy Science College, Kalaburagi
7	B.F.Sc.	36	31	33	45	NA	37	College of Fisheries, Mangaluru
8	Animal Husbandry Diploma	47	48	NA	NA	NA	47	Animal Husbandry Polytechnic, Konehalli, Tiptur
9	Animal Husbandry Diploma	45	43	NA	NA	NA	47	Animal Husbandry Polytechnic, Shiggaon Haveri

*NA:- Not Applicable



3) No. of Students admitted to Postgraduate degree and Ph.D. programmes

#	Department	Masters Degree			Ph.D.			
		On roll		Completed	On roll			Completed
		I	II	2015-16	I	II	III	2015-16
VETERINARY COLLEGE, BENGALURU								
1	Animal Genetics and Breeding	2	3	3	2	2	2	1
2	Animal Nutrition	2	2	2	1	1	-	1
3	Livestock Production and Management	2	3	1	2	1	1	1
4	Livestock Products and Technology	3	-	3	-	-	-	-
5	Poultry Science	3	4	2	1	2	2	2
6	Vety. Animal Husbandry Extension	2	3	3	-	-	-	-
7	Vety. Anatomy & Histology	-	3	4	3	1	-	2
8	Vety. Biochemistry	2	1	2	2	-	1	-
9	Vety. Gynecology & Obstetrics	6	8	4	1	2	1	5
10	Vety. Medicine	3	5	3	1	2	2	1
11	Vety. Microbiology	3	3	4	3	2	2	2
12	Vety. Parasitology	3	3	2	-	1	1	-
13	Vety. Pathology	5	4	4	2	3	3	3
14	Vety. Pharmacology & Toxicology	4	3	4	-	1	-	2
15	Vety. Physiology	1	3	2	2	1	-	1
16	Vety. Surgery & Radiology	3	3	6	1	1	1	2
17	Vety. Wildlife	3	5	2	-	-	-	-
Total (A)		47	56	51	21	20	16	23
VETERINARY COLLEGE, BIDAR								
1	Animal Genetics and Breeding	3	3	2	-	-	-	-
2	Animal Nutrition	-	-	-	-	1	-	1
3	Veterinary Anatomy & Histology	1	2	-	-	-	-	-
4	Animal Reproduction Gynecology & Obstetrics	4	1	4	1	-	-	-
5	Veterinary Medicine	3	4	4	-	-	-	-
6	Veterinary Physiology & Biochemistry	1	2	1	-	-	-	-
7	Veterinary Surgery & Radiology	3	4	4	1	1	2	-
8	Veterinary Microbiology	1	2	1	2	-	-	-
9	Livestock Management and Production	1	-	-	-	-	-	-
Total (B)		17	18	16	04	02	02	01



VETERINARY COLLEGE, SHIVAMOGGA								
1	Veterinary Pharmacology & Toxicology	1	-	-	-	-	-	-
2	Veterinary Public Health & Epidemiology	1	-	-	-	-	-	-
3	Veterinary & Animal Husbandry Extension	1	-	-	-	-	-	-
Total (C)		03	00	00	00	00	00	00
DAIRY SCIENCE COLLEGE, BENGALURU								
1	Dairy Technology	9	7	4	1	1	1	2
2	Dairy Chemistry	4	4	1	1	-	-	-
3	Dairy Microbiology	2	2	1	-	-	1	-
4	MBA (Food & Dairy Business)	16	7	-	-	-	-	-
Total (D)		31	20	06	02	01	02	02
COLLEGE OF FISHERIES, MANGALURU								
1	Aquaculture	8	6	7	3	-	-	2
2	Aquatic Environment Management	6	1	3	1	-	1	5
3	Fisheries Resources and Management	6	7	6	5	2	2	2
4	Fisheries Microbiology	4	4	2	-	-	1	1
5	Fish Processing Technology	4	1	4	3	-	2	1
6	Fisheries Engineering and Technology	-	-	-	-	-	-	-
Total (E)		28	19	22	12	02	06	11
Grand Total		126	103	95	39	25	26	37

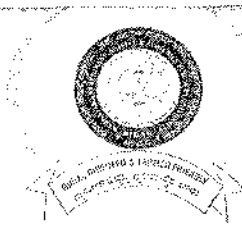
4) Academic Excellence

(i) Scholarships / Fellowships received

UNDERGRADUATE

ANIMAL AND VETERINARY SCIENCES

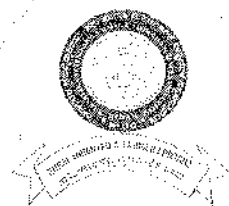
#	Scholarship	Year					Total
		I	II	III	IV	V	
General Scholarship							
1	Veterinary College, Bengaluru	1	3	5	7	3	19
2	Veterinary College, Bidar	8	-	5	5	4	22
3	Veterinary College, Shivamogga	7	3	6	5	5	26
4	Veterinary College, Hassan	4	4	5	1	4	18
Merit Scholarship							
1	Veterinary College, Bengaluru	2	2	2	2	2	10
2	Veterinary College, Bidar	2	2	2	2	2	10
3	Veterinary College, Shivamogga	2	2	2	2	2	10
4	Veterinary College, Hassan	2	2	2	2	2	10



National Talent Scholarship							
1	Veterinary College, Bengaluru	11	8	2	7	1	29
2	Veterinary College, Bidar	7	-	-	4	3	14
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
Students Aid Fund							
1	Veterinary College, Bengaluru	2	3	1	-	-	06
2	Veterinary College, Bidar	2	-	-	1	-	03
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
B.C.M.							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	10	3	13	23	21	70
4	Veterinary College, Hassan	26	4	4	22	17	73
Govt. of India Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	8	10	2	8	6	34
Sitaram Jindal Foundation Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	1	3	2	06
4	Veterinary College, Hassan	-	1	-	-	3	04
Handicaps Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	1	-	1	-	02
4	Veterinary College, Hassan	1	-	-	1	1	03
SC/ST Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	4	3	1	3	5	16
4	Veterinary College, Hassan	-	-	-	-	-	-
Total		99	51	53	99	83	385

DAIRY SCIENCE

#	Scholarship	Year				Total
		I	II	III	IV	
General Scholarship						
1	Dairy Science College, Bengaluru	5	5	5	5	20
2	Dairy Science College, Kalaburagi	-	-	-	-	00
Merit Scholarship						
1	Dairy Science College, Bengaluru	2	2	2	2	08
2	Dairy Science College, Kalaburagi	-	-	-	-	00
Govt. of India Scholarship (ST)						
1	Dairy Science College, Bengaluru	-	-	-	-	00
2	Dairy Science College, Kalaburagi	1	2	2	2	07



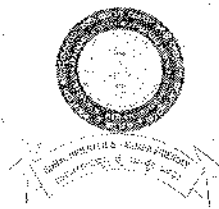
Govt. of India Scholarship (SC)						
1	Dairy Science College, Bengaluru	-	-	-	-	00
2	Dairy Science College, Kalaburagi	2	6	2	3	13
EBL Charges (ST)						
1	Dairy Science College, Bengaluru	-	-	-	-	00
2	Dairy Science College, Kalaburagi	1	2	2	2	07
EBL Charges (SC)						
1	Dairy Science College, Bengaluru	-	-	-	-	00
2	Dairy Science College, Kalaburagi	2	6	2	3	13
E-Pass to Backward Classes						
1	Dairy Science College, Bengaluru	-	-	-	-	00
2	Dairy Science College, Kalaburagi	10	8	10	9	37
Total		23	31	25	26	105

FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

#	Scholarship / Fellowship	B.F.Sc.				Total
		I	II	III	IV	
1	Merit Scholarship	2	2	-	2	6
2	ICAR - Hands On & Implant Training (RAWE)	-	-	-	45	45
3	ICAR - Merit - Cum- Means (MCM)	-	-	2	2	4
4	National Talent Scholarship (NTS) - ICAR	1	-	-	3	4
5	BCM	-	4	5	-	9
6	EBL - GOI	-	7	4	8	19
7	Lakshadweep	-	-	-	5	5
8	Internship - ICAR	-	-	-	44	44
Total		03	13	11	109	136

Abstract of Undergraduate Scholarship

#	Scholarship	VCH	VCB	VCS	HVC	DSCH	DSCK	FCM	Total
1	General Scholarship	19	22	26	18	20	00	00	105
2	Merit Scholarship	10	10	10	10	08	00	06	54
3	National Talent Scholarship	29	14	00	00	00	00	04	47
4	Student Aid Fund	06	03	00	00	00	00	00	09
5	B.C.M.	00	00	70	73	00	00	09	152
6	Govt. of India Scholarship	00	00	00	34	00	00	00	34
7	Sitaram Jindal Foundation Scholarship	00	00	06	04	00	00	00	10
8	Handicap Scholarship	00	00	02	03	00	00	00	05
9	SC/ST Scholarship	00	00	16	00	00	00	00	16
10	Govt. of India Scholarship (ST)	00	00	00	00	00	07	00	07
11	Govt. of India Scholarship (SC)	00	00	00	00	00	13	00	13
12	EBL Charges (ST)	00	00	00	00	00	07	00	07
13	EBL Charges (SC)	00	00	00	00	00	13	00	13



14	E-Pass to Backward Classes	00	00	00	00	00	37	00	37
15	ICAR - Hands On & Implant Training (RAWB)	00	00	00	00	00	00	45	45
16	ICAR - Merit - Cum-Means (MCM)	00	00	00	00	00	00	04	04
17	EBL - GOI	00	00	00	00	00	00	19	19
18	Lakshadweep	00	00	00	00	00	00	05	05
19	Internship - ICAR	00	00	00	00	00	00	44	44
Total		64	49	130	142	28	77	136	626

POSTGRADUATE

ANIMAL AND VETERINARY SCIENCES

#	Scholarship	M.V.Sc.		Ph.D			Total
		I	II	I	II	III	
Students Aid Fund							
1	Veterinary College, Bengaluru	04	01	-	-	-	05
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
URMS Scholarship							
1	Veterinary College, Bengaluru	21	16	01	-	01	39
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
Merit Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	08	05	-	-	-	13
3	Veterinary College, Shivamogga	02	-	-	-	-	02
Total		35	21	01	00	01	59

DAIRY SCIENCE

#	Scholarship	M.Tech.		Ph.D			Total
		I	II	I	II	III	
Dairy Science College, Bengaluru							
1	Merit Scholarship	03	03	-	-	-	06
Total		03	03	-	-	-	06

FISHERY SCIENCE

#	Scholarship / Fellowship	M.F.Sc.		Ph.D.			Total
		I	II	I	II	III	
1	Merit Scholarship	05	03	-	-	-	08
2	EBL - GOI	01	01	-	-	-	02
3	ICAR-JRF	01	-	-	-	-	01
4	Inspire Fellowship	-	-	-	01	-	01
Total		07	04	00	01	00	12



Abstract of Postgraduate (MVSc & Ph.D) Scholarship

#	Scholarship	VCH	VCB	VCS	DSCH	FCM	Total
1	Students Aid Fund	05	00	00	00	00	05
2	URMS Scholarship	39	00	00	00	00	39
3	Merit Scholarship	00	13	02	06	08	29
4	EBL - GOI	00	00	00	00	02	02
5	ICAR-JRF	00	00	00	00	01	01
6	Inspire Fellowship	00	00	00	00	01	01
	Total	44	13	02	06	12	77



(ii) UG Gold Medals Awarded

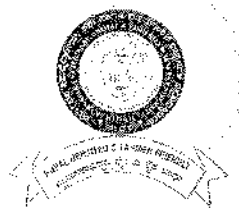
Sl. No	ID. No.	Name	Medals/Awards	OGPA
VETERINARY COLLEGE, BENGALURU				
1	VHK-940	Nitish Kallianpur	University Gold Medal Dr. R.D. Nanjiah Memorial Smt. & Sri. M.M. Wadayar Dr. R.D. Nanjiah Memorial Sr. T.K. Gurusidappa Memorial Gold Medal The Lion's International District 304-S Sri. R Gundu Rao. F.M. Khan Gold Medal Karnataka Veterinary Association Gold Medal Smt. B. Hosahalli Gulamma Gold Medal	8.828
2	VHK-911	Ashwini, M.	Dr. R.F. Patil Memorial	9.136
VETERINARY COLLEGE, BIDAR				
1	VBK-955	Vikram R	University Gold Medal Dr. Syed Mohidden Memorial Gold Medal Late Sri K R Allur Gold Medal Dr. D M Karegowda Gold Medal Dr. R. V Patil Memorial Gold Medal- (OVERALL)	8.696 8.986 8.319 8.695 8.696
2	VBK-931	Pradeep Nag B S	Dr. D N Vasudeva Mudaliar Gold Medal Dr. B L Pradeep Memorial Gold Medal Dr. K Y Jaganath Gold Medal	9.036 9.493 9.036
3	VBK-939	Sanju S R	State Bank of Hyderabad Gold Medal Prof K Jayakumar Memorial Gold Medal	7.957 7.957
4	VBK-918	Kavya K M	Prof. S M Jayadevappa Gold Medal	9.408
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU				
1	DHK-1009	Darilana Veema Syngkon	Smt Kanthamma W/o Sri. Putta Murthy Gold Medal in Dairy Technology University Gold Medal Silver Jubilee Gold Medal Impressions Dairico Batch of 1993-97 Gold Medal	8.59
COLLEGE OF FISHERIES, MANGALURU				
1	FMK-1014	Inchara, U.B.	University Gold Medal Mr. R.N. Ramachandra Memorial Gold Medal Dr. K.V. Devaraj Ex. Vice Chancellor UAS, Bengaluru Gold Medal	8.66



(iii) PG Gold Medals Awarded
(a) Masters Degree

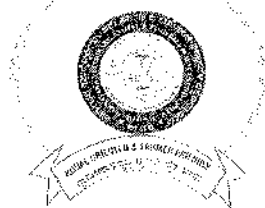
#	ID. No.	Name	Department	Medals/Awards	OGPA
VETERINARY COLLEGE, BENGALURU					
1	MVHK-1259	Rekha Yadav	Vety. Pharmacology & Toxicology	University Gold Medal	9.02
2	MVHK-1246	Vijayakumar	Vety. Parasitology	University Gold Medal Dr. Sivaramakrishmier Ramachandran & Dr. Sakkubai Paturi Ramachandran Gold Medal	9.53
3	MVHK-1204	Kavya, K.	Animal Nutrition	University Gold Medal	9.15
4	MVHK-1212	Rajashekhara, D.B.	Livestock Product Technology	University Gold Medal	9.02
5	MVHK-1213	Latha, M.	Poultry Science	University Gold Medal Dr. B.V. Rao. Venkateshwara Hatcheries Ltd. Gold Medal Mr. H. Sabjeevappa Gold Medal Shri. John Sebastain gold Medal	9.42
6	MVHK-1218	Pramila	Vety. & Animal Husbandry Extension	University Gold Medal	9.19
VETERINARY COLLEGE, BIDAR					
1	MVNK-1203	Shashikant Sindagi	AGB	University Gold Medal	9.38
2	MVNK-1209	Mahesh	VAN	University Gold Medal	9.28
3	MVNK-1218	Prithivraj	VPB	University Gold Medal	9.37
4	MVNK-1211	Hiralal S Janagi	VGO	University Gold Medal Smt Sarwati W/o Gurupadappa Nagamarpalli Gold Medal	9.33
5	MVNK-1212	Keerti	VMD	University Gold Medal Smt S.K. Sowmyayakamma Gold Medal	9.17
6	MVNK-1221	Chandreshkhar Bulgouda	VSR	University Gold Medal Prof. S M Jayadevappa Gold Medal	9.30
7	MVNK-1220	Chandrashekhar Y Bjantri	VSR	Prof. B N Ranganath Gold Medal	9.16
COLLEGE OF FISHERIES, MANGALURU					
1	MFK-1212	Saritha, S.	FRM	University Gold Medal Prof. H.P.C. Shetty Gold Medal	9.02





(b) Doctoral Degree

#	ID. No.	Name	Department	Medals/Awards	OGPA
VETERINARY COLLEGE, BENGALURU					
1	DVHK-1122	Shambhulingappa, Y.	Vety. Anatomy & Histology	University Gold Medal	9.15
2	DVHK-1142	Suhasini, K	Vety. Pharmacology & Toxicology	University Gold Medal	9.26
3	DVHK-1123	Apsana, R.	Vety. Microbiology	University Gold Medal	9.32
4	DVHK-1117	Ramesh, B.K.	Vety. Pathology	University Gold Medal	9.25
5	DVHK-1136	Ravindranatha, B.M.	Vety. Gynaecology & Obstetrics	University Gold Medal	9.04
6	DVHK-1132	Anil.S. Patil	Vety. Surgery & Radiology	University Gold Medal	9.32
7	DVHK-1103	Naveen Kumar, G.S.	Animal Genetics & Breeding	University Gold Medal	9.37
8	DVHK-1106	Vikram,C.	Animal Nutrition	University Gold Medal	9.14
9	DVHK-1141	Santhosh Kumar, C.N.	Vety. Pharmacology & Toxicology	Dr. B.P. Madrewar Gold Medal	9.15
COLLEGE OF FISHERIES, MANGALURU					
1	DFK-1104	Akhila, D.S.	Fisheries Microbiology	University Gold Medal	9.29



5) Academic Research (Postgraduate Research)

Thesis accepted during the year 2015-16 for Masters and Doctoral Degree

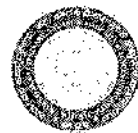
i) Master's Degree:

<i>Sl. No.</i>	<i>Thesis Title</i>	<i>Name of the Student</i>	<i>Major Advisor and Dept.</i>
VETERINARY COLLEGE, BENGALURU			
1	Studies on congenital abnormalities of abdomen, pelvis and hind limb in cattle of Karnataka	Sriranga, H.K.	Dr. R.V. Prasad VAN
2	Studies on the effects of the lipid based cryoprotectants on the ovine sperm viability	Pateel Ravishankar Gowd	Dr. K.V. Jamuna VAN
3	Studies on histology and histochemistry of coronary artery, aorta, aortic and atrio-ventricular valves in pigs	Divya Nuthan	Dr. K.V. Jamuna VAN
4	Comparative histomorphology of liver, spinal cord, cardiac muscle, kidney and lymph node of pig using different embedding media	Ramya, M.P.	Dr. K.V. Jamuna VAN
5	Morphological studies of fore limb bones in sloth bear (<i>melursus ursinus</i>)	Puttaraju, R.C	Dr. K.V. Jamuna VAN
6	Studies on certain physical and biochemical parameters in seminal plasma of Nari Suvarna rams	V. Tejaswi	Dr. M. Narayana Swamy VPY
7	Studies on thyroid profile and lipid profile in Labrador retriever dogs.	Megha, K.	Dr. M. Narayana Swamy VPY
8	Occurrence and pathomorphological studies on fis diseases in and around Bengaluru	Byregowda, T.R.	Dr. Suguna Rao VPY
9	Synthesis, characterization and toxicity studies of busulfan oral thin films in rats	Aparna, V.	Dr. Jagadeesh S Sanganal VPT
10	Anti - cancerous efficacy and safety study of <i>Croton oblongifolius</i> in rats	Gowrav Adiga, P.	Dr. N.B. Shridhdar VPT
11	Synthesis, characterization and toxicity studies of 5 fluorouracil oral thin films in rats	Shruthi, S.K.	Dr. N.B. Shridhdar VPT
12	Pharmacokinetics and efficacy studies of enrofloxacin in broiler chicken	Shilpa, N.	Dr. Jagadeesh S Sanganal VPT
13	Study on bio distribution pattern of enrofloxacin in broiler chicken	Santosh, I.M.	Dr. Jagadeesh S Sanganal VPT
14	Epidemiology and serosurveillance of foot and mouth disease in Karnataka	Govindaraju, V.	Dr. D. Rathnamma VMC
15	Isolation and characterization of <i>Salmonella</i> spp. from captive wild animals	Nirupama Jaisingh	Dr. B.M. Veeregowda VMC
16	Comparative evaluation of blood based lateral flow assay with serological tests and PCR for the diagnosis of brucellosis	Kavya, B.A.	Dr. B.M. Veeregowda VMC



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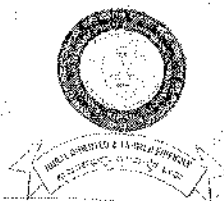
	in livestock		
17	A study on genetic variability of G-L intergenic region sequences of Indian rabies virus strains circulating in animals	Pramina, K. V.	Dr. Shrikrishna Isloor VMC
18	Isolation and molecular characterization of ORF virus from sheep and goats in Karnataka	Srinivas Babu, T.	Dr. D. Rathnamma VMC
19	Evaluation of reduced dose of <i>Brucella abortus</i> strain 19 vaccine administered through conjunctival route in cattle	Chaithra, Y.	Dr. Shrikrishna Isloor VMC
20	Studies on prevalence of gastrointestinal parasites of pigs	Chaitra, K. Gowda	Dr. G.C. Puttalakshamma VPA
21	Studies on gastro intestinal parasitism in horses	Valibasha, H.	Dr. Placid E. D'Souza VPA
22	Studies on induced diabetes in rats and evaluation of efficacy of <i>Azadirachta indica</i> in its control	Lakshmi, H.A.	Dr. M.L. Satyanarayana VPP
23	Studies on induced diabetes in rats and evaluation of efficacy of <i>Ocimum santum</i> in its control	Simitha John	Dr. M.L. Satyanarayana VPP
24	A clinical study on incidence and risk factors for vaginal tumors in dogs with particular reference to vaginal leiomyoma	Prashanth, C.	Dr. A. Krishnaswamy VGO
25	Effect of extenders on keeping quality of ram semen	Zaheer Abbass	Dr. G. Sudha VGO
26	Comparative study of freezing of Amrithmahal bull semen in chemically defined media and TRIS extenders.	Sateesha Mannapur	Dr. V.Chandrashekara Murthy VGO
27	Comparative studies on freezing of Hallikar bull semen in chemically defined media (Optixell) and TRIS	Imamahusen Ranajanasb Gudir	Dr. T.G Honnappa VGO
28	Studies on conception rate in bitch in relation to matings carried out at different intervals following optimum vaginal cornification	Kantesh Jaffer	Dr. A. Krishnaswamy VGO
29	Studies on therapeutic management of renal failure in dogs	Somesha Atmaram Sawale	Dr. S. Yathiraj VMD
30	Studies on pyoderma in dogs caused by staphylococcus intermedius group (SIS) of organisms	Soumya, B.	Dr. Kshama M.A. VMD
31	evaluation of herbal insect repellents against feeding preference of culicoides midges on sheep	Laxman Naik	Dr. Ravindra B.G. VMD
32	Study on prevalence and comparative efficacy of avermectins against gastrointestinal nematodes of goats	Puneeth, H.J.	Dr. Vivek. R. Kasaralika VMD
33	Studies on percutaneous transfemoro-acetabular nylon wiring for traumatic hip luxation in companion animals	Shivakumar, E.	Dr. B.N. Nagaraja VSR
34	Studies on stabilization of vertebral	Vageesh Chavan	Dr. B.N. Nagaraja



	fractures by modified type-II external skeletal fixation in dogs		VSR
35	Studies on cutaneous tumors in dogs	Estella Judaine D'eunha	Dr. M.S. Vasanth VSR
36	Studies on sclera approach of phacoemulsification in dogs with cataract	Amitha, F.K.	Dr. L. Ranganath VSR
37	Comparison of conventional and laparoscopic method of cryptorchidectomy in dogs	Sachin, C.	Dr. L. Ranganath VSR
38	Effect of phytoestrogens on germ cell population of male rats	Srinivas Rao, O. Patnaik	Dr. V. Girish Kumar VBC
39	Identification of seminal RNAs as indicators of reproductive performance in bulls	Shilpa, M.	Dr. V. Girish Kumar VBC
40	Identification of skin and other tissues of wild cervids, bovids and felids based on microsatellite marker	Ravi, M.	Dr. M. D. Venkatesha WL
41	Studies on foot problems in captive Asian Elephants in Karnataka state.	Babu Buden, J.R.	Prof. H.A. Upendra WL
42	Certain studies on reproductive status of different species of female captive pheasants	Anneth Alice John	Dr. M. Narayana Swamy WL
43	Nutritional evaluation of spent maize (<i>Zea mays</i>) cob as roughage source in sheep	Kavya, P.S.	Dr. T.M. Prabhu ANN
44	Nutritional evaluation of spent maize (<i>Zea mays</i>) COB shank based total mixed ration in growing lambs	Pradeep, R.	Dr. R. Gideon Gloridoss ANN
45	Evaluation of second generation (S ₁) of indigenous chicken pertaining to two divisions of Karnataka	Mohan Kumar, T.R.	Dr. H.N. Narasimhamurthy AGB
46	Association between DAZL gene single nucleotide polymorphism and fertility traits in breeding rams	Siddaraju, N.	Dr. R. Nagaraja AGB
47	Comparative genetic evaluation of milk quality traits in Malnad Gidda and crossbred cattle	Shilpashree, K.S.	Dr. M.R. Jayashankar AGB
48	Evaluation of comparative performance of Swarnadhara under intensive and semi intensive system of rearing	Nilesh, A. Shejal	Dr. T. Munegowda PSc
49	Comparative evaluation of herbal immunomodulator vis a vis Levamisole on growth performance of Giriraja birds	Dharmaraj, C.Y.	Dr. Jayanaik PSc
50	Effect of supplementary feeding of Azolla on performance of broiler rabbits	Anitha, K.C.	Dr. Y.B. Rajeshwari LPM
51	Studies on occurrence of food-borne <i>Listeria</i> species in chicken and mutton	Vinay Kumar, B.N.	Dr. Md. Nadeem Fairoze LPT
52	Residue analysis in meat following oral administration of Enrofloxacin to broilers	Manu, H.T.	Dr. Md. Nadeem Fairoze LPT
53	Studies on certain quality parameters and prevalence of some food borne pathogens in market samples of table eggs	Vinayananda, C.O.	Dr. Md. Nadeem Fairoze LPT



54	Management practices of pet dogs - a critical analysis	Sakshi, S.	Dr. K. Satyanarayan VAHE
55	An action research on intensive cultivation of <i>medicago sativa</i> (Lucerne) for sustainable milk production	Kanth Raju, M.K.	Dr. V. Jagadeeswary VAHE
56	Individual and community Milking - A comparative study in Kolar District of Karnataka	Mohankumar, S.	Dr. K. Satyanarayan VAHE
VETERINARY COLLEGE, BIDAR			
1	Comparative histological and histochemical study of lacrimal glands in ruminants	Triveni, T.	Dr. Ashok Pawar VAN
2	Studies on reproductive traits, semen preservation at refrigeration temperature and its evaluation in NARI Suwarna strain of sheep	Prathibha Kaimal, R.	Dr. M.K. Tandle VGO
3	Abattoir study for reproductive disorders in Osmanabadi goats	Rajashekhar, M.B.	Dr. M.K. Tandle VGO
4	Comparison of laparoscopic and right flank ovariohysterectomy in dogs	Vasudev, S. Pai	Dr. D. Dilipkumar VSR
5	Comparative evaluation of midazolam-propofol and xylazine-propofol induction combinations for isoflurane anaesthesia in cattle	Basavaraj Muchalambe	Dr. D. Dilipkumar VSR
6	Comparison of dexmedetomidine with xylazine for sedation in surgical cases of buffaloes	Bramhalinga, H.M.	Dr. B.V. Shivaprakash VSR
7	Study of the prevalence and management of the subcutaneous abscess in cattle	Florence Hemalatha	Dr. B.V. Shivaprakash VSR
8	Seroepidemiological aspects of infectious bovine rhinotrachitis in buffaloes of North-East region of Karnataka	Sharanagouda, B.M.	Dr. N.A. Patil VMD
9	Prevalence, molecular diagnosis and therapeutic studies on bovine theileriosis.	Madhukar, N.M.	Dr. Vivek R. Kasaraliker VMD
10	Haemato-biochemical, hormonal and mineral profile of repeat breeding buffaloe in relation to different phases of oestrus cycle	Yogesh Jantikar	Dr. Shrikant Kulkarni VPY
11	Effect of fresh banana plant vaster and its silage on dry matter intake, nutrient digestibility and rumen parameters in Osmanabadi kids	Shivaram, N. Patil	Dr. T. Thirumalesh ANN
12	Effect of polyherbal additives on growth, nutrient utilization and biochemical parameters in Yorkshire male pigs	Roopa, K.	Dr. T. Thirumalesh ANN
13	Analysis of growth hormone gene polymorphism in Kenguri sheep	Vaishali Hiremath	Dr. M.M. Appannavar AGB
14	Analysis of growth hormone gene polymorphism in Osmanabadi goat	Sangamesh	Dr. M.M. Appannavar AGB



DAIRY SCIENCE COLLEGE, BENGALURU

1	Development of low calorie probiotic Shrikhand	Sindhu, G.	Dr. Venkatesh M. DT
2	Development of carbonated paneer whey beverage	Chithr, H.A.	Dr. H.G.R. Rao DT
3	Development of flaxseed fortified probiotic whey beverage	Mahesh, M.P.	Dr. D.B. Puranik DT
4	Development of lassi by utilizing paneer whey	Yamuna, M.	Dr. H. Arun Kumar DT
5	Quality attributes of complementary food prepared using malted foxtail millet (<i>Setaria italic</i>) and wheat flours with milk powder	Brunda, S. Murthy	Dr. Jayashree Hiremath DC
6	Study on the incidence and significance of psychrotrophic molds in indigenous fermented dairy products of Bengaluru city	Basavabharati	Dr. R. Prabha DC

COLLEGE OF FISHERIES, MANGALURU

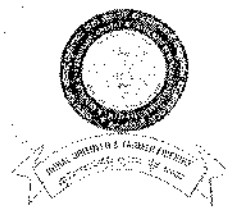
1	Immunodetection of white spot syndrome virus (WSSV) in water flocculated by the addition of flocculating agents	Anrita Rani	Dr. K.S. Ramesh AQC
2	Immunomodulatory effects of lactic acid bacteria on fish health and growth in <i>Labeo rohita</i>	Nesara, K.M.	Dr. E.G. Jayaraj AQC
3	Hormone-induced sex manipulation in Amur common carp	Suma, K.S.	Dr. N. Basavaraja AQC
4	Evaluation of efficacy of selected antibiotic against <i>Vibrio parahaemolyticus</i> in <i>litopenaeus vannamei</i>	Rakesh, K.	Dr. Ganapathi Naik M. AQC
5	Induced breeding and larval rearing of butter catfish, <i>Ompok bimaculatus</i> (Bloch, 1794)	Manjulesh Pai	Dr. N. Basavaraja AQC
6	Effect of dietary supplementation of mannan oligosaccharide on growth, survival and immune response of Indian major carp, <i>Catla catla</i>	Saba Alam	Dr. H. Shivanand Murthy AQC
7	Effect of dietary supplementation of organic selenium on growth, survival and immune response of Indian major carp, <i>Catla catla</i>	Sabita Sonowal	Dr. H. Shivanand Murthy AQC
8	Studies on development and antigen expression of biofilm cells of <i>Vibrio Parahaemolyticus</i>	Shreesha	Dr. K.S. Ramesh AQC
9	Impacts of sand dredging on physicochemical characteristics, fauna and flora of Netravathi estuary	Shaik Merajuddin Aaquib	Dr. A.T.R. Naik AEM
10	Species diversity of diatoms in relation to hydrographical characteristic in the coastal waters off Dakshina Kannada and Udupi district	Shruthi	Dr. Lakshmiipathi M.T. AEM
11	Assessment of heterotrophic bacteria in water and sediments along Gurupur estuary of Mangaluru	Chandrashekar Kademane	Dr. Mridula Rajesh AEM



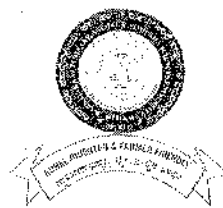
12	Fish protein hydrolysate from fish processing waste: Efficacy of fish protein hydrolysate as functional ingredient in the fish mince based product	Gajendra	Dr. B.A. Shamasundar FPT
13	Preparation of ready to try dried anchovies using solar biomass hybrid drier	Aylwin Cherian	Dr. C.V. Raju FPT
14	Comparative study on the quality of iced fatty and lean fish stored in indigenously developed fish vending and display unit	Amitha	Dr. C.V. Raju FPT
15	Isolation and characterization of <i>Aeromonas</i> Phages	Ajay Kumar, Y.M.	Dr. S.K. Girisha FMB
16	Bacterial and viral pathogens associated with white shrimp (<i>Litopenaeus vannamei</i>) culture systems along Karnataka coast	Narasimha Murthy Y.G.	Prof. M.N. Venugopal FMB
17	Identification of <i>Cynoglossus arel</i> and <i>Synaptura commersonii</i> using COI and 16S rRNA genes	Chitra Soman	Dr. H.N. Anjanayappa FRM
18	A comparative study of COI and 16S rRNA genes for DNA barcoding of <i>Coilia dussumieri</i> and <i>Sardinella gibbosa</i>	Devanand, T.N.	Dr. H.N. Anjanayappa FRM
19	Assessment of Ichthyofaunal biodiversity in Netravati – Gurupur estuarine system of Dakshina Kannada district, Karnataka	Deepashree, B.L.	Dr. S.R. Somashekara FRM
20	Assessment of Ichthyofaunal biodiversity of trawling grounds off Malpe coast	Kishor, C.	Dr. S. Benakappa FRM
21	Studies on the fishery and some aspects of the biology of stomatopod <i>Oratosquilla nepa</i> of Mangaluru coast	Puneeth Rai, M.	Dr. S.R. Somashekara FRM
22	Spawning periodicity of <i>Thryssa mystax</i> (Bloch & Schneider, 1801) and <i>Thryssa setirostris</i> (Broussonet, 1782) of Mangaluru coast	Priyanka, M. Gowda	Dr. S.R. Somashekar FRM

ii) Doctoral Degree:

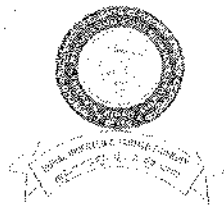
Sl. No.	Thesis Title	Name of the Student Degree	Major Advisor and Dept.
VETERINARY COLLEGE, BENGALURU			
1	Gross and histomorphological studies on the mammary gland of Malanad Gidda cows in Karnataka	Ganga Naik, S.	Dr. R.V. Prasad VAN
2	Studies on placental factors that provide immune-tolerance in porcine gestation	Rajani, C.V.	Dr. R.V. Prasad VAN
3	Studies on heat shock protein 70, antioxidant status, biochemical and hormonal profiles during summer stress in Hallikar cattle	Gurubasayya, P. Kalmath	Dr. M. Narayana Swamy VPY
4	Pharmacokinetic study and residual	Ravikumar, C.	Dr. Jagadeesh S.



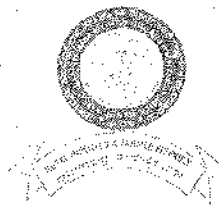
	analysis of levofloxacin in dual purpose chicken		Sanganal VPT
5	Pharmacokinetic study and retisfactory analysis of ciprofloxacin in dual purpose chicken	Sunilchandra, U	Dr. N.B. Shridhar VPT
6	Expression of glycoprotein gene of rabies virus and evaluation of recombinant protein for seromonitoring of vaccinal antibodies in dogs	Sharada, R.	Dr. Shrikrishna Isloor VMC
7	Genetic characterization of classical swine fever virus isolates in Karnataka	Prakash	Dr. D. Rathnamma VMC
8	Pathomorphological and biochemical studies on the effect of <i>Gymnema Sylvestre</i> and chromium in induced diabetes in rats	Kavitha Rani, B.	Dr. Suguna Rao VPP
9	Pathomorphological and immunosuppressive studies on induced aflatoxicosis and its amelioration using diatomaceous earth in broiler birds	Avinash Warundeo Lakkawar	Dr. M.L. Satyanarayana VPP
10	Pathomorphological and immunosuppressive studies on induced T-2 toxicosis and its amelioration using diatomaceous earth in broiler chicken	Shivashankar, B.P.	Dr. H.D. Narayanaswamy VPP
11	Reproductive performance of dairy cows recovered and vaccinated with foot and mouth disease	Honnappa, T.G.	Dr. A. Krishnaswamy VGO
12	Studies on the influence of feeding bypass protein, bypass fat and propylene glycol on reproductive performance of dairy cattle	Shankaregowda, A.J.	Dr. M. Devaraj VGO
13	Evaluation of neonatal viability following complicated delivery in dogs	Jayakumar, C.	Dr. A. Krishnaswamy VGO
14	Studies on the efficacy of Ovsynch and modified Ovsynch protocols on the conception rate in repeat breeder cows	Kantharaj, S.	Dr. V. Chandrashekhar Murthy VGO
15	Evaluation of cardiac biomarkers and echocardiography in the diagnosis and prognostication of mitral valve disease and dilated cardiomyopathy in dogs	Deepti, B.R.	Dr. S. Yathiraj VMD
16	Studies on total hip replacement and excision arthroplasty for hip disorders in dogs	Srinivas Murthy, K.M.	Dr. M.S. Vasanth VSR
17	Growth performance and carcass characteristics of broilers fed low protein diets supplemented with limiting amino acids	Basavanta Kumar, C.	Dr. R. Gideon Glori Doss ANN
18	Genetic variability in calpain and calpastatin loci and association of calpastatin polymorphism with carcass and meat quality traits in Bandur sheep	Naveen Kumar, S.	Dr. M.R. Jayashankar AGB
19	Performance of dual purpose chicken supplemented with Chromium yeast and	Malathi, V.	Dr. Jayanaik PSc



	nano chromium		
20	Effect of dietary supplementation of L-Threonine and L-Tryptophan by reducing levels of crude protein on growth performance and carcass characteristics of commercial broilers	Ananda Manegar, G.	Dr. Jayanaik PSc
21	Impact of selective management interventions on milk parameters and calf growth in crossbred cattle	Anand, S. Devarnavadagi	Dr. Y. B. Rajeshwari LPM
VETERINARY COLLEGE, BIDAR			
1	Evaluation of banana plant (<i>Musa paradisiaca</i>) waste silage based diet on rumen fermentation characteristics and the performance of Osmanabadi goats	Anjaneya, S. N.	Dr. Ramchandra B ANN
DAIRY SCIENCE COLLEGE, BENGALURU			
1	Development of low fat set yoghurt with enhanced shelf life	Priyatam Reddy, K.	Dr. H.G Ramachandra Rao DT
2	Development of ready to use millet based complementary health food	Suresha, K.B	Dr. H.M. Jayaprakasha DT
COLLEGE OF FISHERIES, MANGALURU			
1	Effect of <i>Aeromonas hydrophila</i> biofilm oral vaccine on gut immunity of carps	Abhiman, G.K.	Dr. K.M. Shankar AQC
2	Nutritional histopathology of aflatoxicosis and its possible effects on immunosuppression in <i>Labeo Rohita</i>	Varuna Baglodi	Dr. E.G. Jayaraj AQC
3	Effect of dietary supplementation of organic selenium and nucleotide on growth, survival and immune response of Indian major carp, <i>Labeo rohita</i>	Sampa Baidya	Prof. H. Shivanand Murthy AQC
4	Haematological and histological changes in Tilapia (<i>Oreochromis mossambicus</i>) exposed to cadmium and chlorpyrifos	Muttappa Khavi	Dr. H.R.V. Reddy AEM
5	Haematological and histological changes in iridescent shark, <i>Pangasius hypophthalmus</i> (Sauvage, 1878) exposed to heavy metals Lead and Cadmium	Sruthisree, C.	Dr. Gangadhara Gowda AEM
6	Heavy metal concentration in commercially important finfishes exploited at Mangaluru and Malpe fishing harbours, Karnataka	Harsha Nayak	Dr. Gangadhara Gowda AEM
7	Haematology and histology of iridescent shark, <i>Pangasius hypophthalmus</i> Sauvage, 1878) exposure to organophosphorous pesticides phorate and pyrethroid cypermethrine	Dhamagaye Harish Bhaiyala	Dr. Gangadhara Gowda AEM
8	Physiological and biochemical responses in Tilapia (<i>Oreochromis mossambicus</i>) exposed to cadmium and chlorpyrifos	Padmanabha, A.	Dr. H.R.V. Reddy AEM
9	Maximized uses of phenolic compounds on oxidative and microbial spoilage of Indian mackerel during different storage	Faisal Rashid Sofi	Dr. C.V. Raju FPT



	conditions		
10	Immune gene expression in tiger shrimp (<i>Penaeus monodon</i>) to <i>Vibrio harveyi</i> infection	Dechamma, M.M.	Dr. Indrani Karunasagar FMB
11	Assessment of juveniles in trash fish landing from trawlers of Mangaluru	Mahesh, V.	Dr. S. Benakappa FRM
12	Studies on fishery and population biology of fringe-lipped carp, <i>Labeo fimbriatus</i> (Bloch) from Vanivilas Sagar Reservoir of Karnataka	Rajanna, K.B.	Dr. S. Benakappa FRM



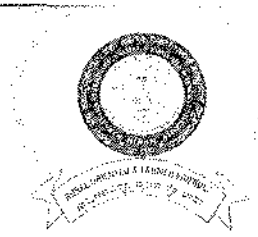
6) Library and Information Services

(i) Print Media (books, journals/periodicals)

#	Particulars	VCH & DSCII	VCB	VCS	HVC	DSCK	FCM	AHPK	AHPS	TOTAL
1	Books	14732	11285	5325	5824	2105	16300	-	871	56442
2	ST/ST BB	2385	2312	670	576	247	585	-	433	7208
3	Back Volumes	10958	2369	-	865	-	6400	-	-	20592
4	Thesis	1709	962	-	-	-	797	-	-	3468
5	Comp Books	1676	296	-	-	-	-	-	-	1972
6	Audio/Video CD	1265	42	46	158	-	-	-	-	1511
7	E-Books	874	874	874	874	-	-	-	-	3496
8	Indian Journals	36	28	11	39	-	21	02	01	138
9	Foreign Journals	18	05	-	-	-	-	-	-	23
10	Gift Books	1265	123	21	06	77	400	-	10	1902
11	Reports	-	-	-	-	-	-	-	10	10
12	Pamphlets	-	-	-	-	-	-	1000	200	1200
13	Other	-	-	-	-	-	-	02	-	02
Total		34918	18296	6947	8342	2429	24503	1004	1525	97964

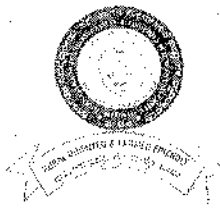
(ii) Non-print Media (e-resources) - list of e-journals/CD

#	Particulars	VCH & DSCH	VCB	VCS	HVC	DSCK	FCM	AHPK	AHPS	Total
1	IP Based Login	-	-	-	-	-	-	-	-	00
2	User Profile Login	-	-	-	-	-	-	-	-	00
3	Abstract	-	-	-	-	-	-	-	-	00
4	Full-text	-	-	-	-	-	-	-	-	00
5	CD-Rom (Books)	-	-	-	-	-	-	-	-	00
6	e-journals / CD	360	360	360	360	-	150	-	41	1631
7	CeRA e- journals	-	-	-	-	-	-	-	-	00
Total		360	360	360	360	00	150	00	41	1631



(iii) Membership Usage

#	Particulars	VCH & DSCH	VCB	VCS	HVC	DSCK	FCM	Total
1	Students at UG Level	66584	10499	15212	4893	2600	2400	102188
2	Students at PG Level							
3	Staff	1331	524	1200	1973	1560	400	6988
4	Others	810	21	350	-	02	100	1283
Total		68725	11044	16762	6866	4162	2900	110459



7) Student Welfare Activities

DIRECTORATE OF STUDENT WELFARE, KVAFSU, BIDAR

11th Inter collegiate Sports & Games Meet 2015-16

11th KVAFSU Inter-collegiate Cricket and Foot Ball Tournaments 2015-16 was organized by Veterinary College, Hebbal, Bengaluru from Sept- 10th to 12th -2015. All constituent colleges viz, Veterinary College, Bidar/ Shivamogga/ Hassan/ Bengaluru; Dairy Sciences College, Bengaluru/ Kalaburagi and College of Fisheries, Mangaluru participated in the events. The Inter-Collegiate Tournaments-2015-16 was inaugurated by Dr. Maleques Arokyanathan, Secratery and Principle Y.M.C.A College of Physical Education, Bengaluru. Guest of Honour Dr. B.V. Shivaprakash, Director of Student Welfare, KVAFSU, Bidar, Mr. Somashekher, Head, Dept of Physical Education Veterinary College, Hebbal, Bengaluru participated as Chief Guests. Dr.S. Yathiraj, Dean, Veterinary College, Bengaluru presided over the function.

The Winners and Runners of the Inter-Collegiate Cricket and Foot Ball Tournaments were as follows,

#	Event	Winner & Runner up	College
1	Foot Ball	Winner	College of Fisheries, Mangaluru
		Runner	Veterinary College Bidar
2	Cricket	Winner	Veterinary College, Bengaluru
		Runner	Veterinary College Bidar

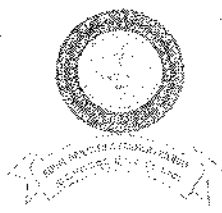
The Valedictory function was organized on 12-09-2015, Dr. Yeshwant Kumar, Deputy Director of Student Welfare, KVAFSU, Bidar, Mr. Somashekher, Head, Dept of Physical Education, Veterinary College, Hebbal, Bengaluru were Chief Guests for the function. Dr. Krishna Swamy, Professor & Head, Dept of Gynaecology & I/C Dean, Veterinary College, Hebbal, Bengaluru presided over the function.

11th Inter Collegiate Youth Festival - Waves-2015-16

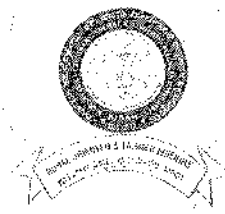
11th KVAFSU Inter-Collegiate Youth Festival-Waves - 2015-16 was organized by College of Fisheries Mangaluru. from 19th to 21st Oct -2015-16 All constituent Colleges viz, Veterinary College, Bidar /Shivamogga /Hassan/Bengaluru, Dairy Sciences College Bengaluru/Kalaburagi, and College of Fisheries Mangaluru. Sri Abhayachandra Jain Hon'ble Minister for youth Affairs and Fisheries, Government of Karnataka Inaugurated the mega event. Dr. C. Remukaprasad, Hon'ble Vice- Chancellor, KVAFSU, Bidar and Dr B.V. Shivaprakash, Director of Student Welfare, KVAFSU, Bidar were the chief guest for the function. Dr. Shankar K M Dean College of Fisheries Mangaluru presided over the Inaugural function held on 19th Oct-2015.

The winners of the inter-Collegiate Youth Festival were as follows,

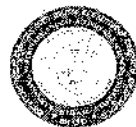
#	Name of Event	Secured Place	Name of Winner/s	Name of the College
Solo Event				
01	Light Vocal Kannada	First	Surama.K.Ramesh	Dairy Science College, Hebbal, Bengaluru
		Second	Vidya Rani	Veterinary College, Hassan



02	Debate (Kannada)	Third	Sachin.S.V	College of Fisheries, Mangaluru
		First	Sindhoora Divakar	Veterinary College, Hassan
		Second	Prithvisagar.K.S	College of Fisheries, Mangaluru
		Third	Mahendra.S	Veterinary College, Hebbal, Bengaluru
03	Elocution (Kannada)	First	Prithvisagar.K.S	College of Fisheries, Mangaluru
		Second	Mahendra.S	Veterinary College, Hebbal, Bengaluru
04	Extempore (Kannada)	Third	Sindhoora Divakar	Veterinary College, Hassan
		First	Mahendra.S	Veterinary College, Hebbal, Bengaluru
		Second	Sahana.M.D	College of Fisheries, Mangaluru
05	Debate (English)	Third	Manjunath	Veterinary College, Hassan
		First	Gopika	College of Fisheries, Mangaluru
		Second	Germin.Tom George	Dairy Science College, Hebbal, Bengaluru
06	Elocution (English)	Third	Shaista Firdosi	Veterinary College, Hassan
		First	Chetan	Veterinary College, Shivamogga
		Second	Jayanth.H	Veterinary College, Bidar
		Third	Vandana.V.R	College of Fisheries, Mangaluru
07	Extempore (English)	First	Shaista Firdosi	Veterinary College, Hassan
		Second	Sharat Joshi	Veterinary College, Bidar
		Third	Kushmitha Rao	Veterinary College, Hebbal, Bengaluru
08	Rangoli	First	Aishwarya.M.Y	Dairy Science College, Kalaburagi
		Second	Niveditha.M	Veterinary College, Bidar
		Third	Basava Prabhu.H.M	Dairy Science College, Hebbal, Bengaluru
09	On the Spot Painting	First	Prasad.M.G	Veterinary College, Hassan
		Second	Karthik.M	College of Fisheries, Mangaluru
		Third	Prithvi	Veterinary College, Shivamogga
10	Cartooning	First	Nikitha Prakash	Veterinary College, Hebbal, Bengaluru
		Second	Kumbi Vishwapriya	Veterinary College, Hassan
		Third	Karthik.M	College of Fisheries, Mangaluru
11	Poster Making	First	Ekanath.V.M	Veterinary College, Shivamogga
		Second	Karthik.M	College of Fisheries, Mangaluru
		Third	Prasad.M.G	Veterinary College, Hassan
12	Collage	First	Neha Kumawat	Veterinary College, Hebbal, Bengaluru
		Second	Prithvi	Veterinary College, Shivamogga
		Third	Bindushree Pandit	Veterinary College, Hassan
13	Clay Modelling	First	Ekanath.V.M	Veterinary College, Shivamogga
		Second	Prasad.M.G	Veterinary College, Hassan
		Third	Prithvi Patel.J	Veterinary College, Hebbal, Bengaluru
14	Mono Acting	First	Bhaskar Reddy.M	Dairy Science College, Hebbal
		Second	Neeveditha	Dairy Science College, Kalaburagi
		Third		Veterinary College, Shivamogga
Group Event				
01	QUIZ	First	Gururaj.V.K. and	Veterinary College, Shivamogga



			Sheetal	
		Second	Pramod Hebbal and Mukund Naik.N	Veterinary College, Hebbal, Bengaluru
		Third	Kiran Kumar.S. and Shaista Firdosi	Veterinary College, Hassan
02	Patriotic Song	First	Surama.K.Ramesh, Tanushree.R, Nikita, Sahana.H.S, Basava Prabhu.H.M and Shivakumar.G	Dairy Sciencee College, Hebbal, Bengaluru
		Second	Kusmita Rao, Nikitha Prakash, Keerthana Joshy.B, Apoorva.H.J, Vasudhar Bhat.S.V and Beeresh.M	Veterinary College, Hebbal, Bengaluru
		Third	Sumithra.B.M, Vidya Rani, Sameeksha.C, Shravya.B.L, Bindushree.P, and Ranjitha. A	Veterinary College, Hassan
03	Group Song (Indian)	First	Surama.K.Ramesh, Tanushree.R, Nikita, Sahana.H.S, Basava Prabhu.H.M and Shivakumar.G	Dairy Sciencee College, Hebbal, Bengaluru
		Second	Kusmita Rao, Nikitha Prakash, Keerthana Joshy.B, Apoorva.H.J, Vasudhar Bhat.S.V and Basavaraj.M	Veterinary College, Hebbal, Bengaluru
		Third	Sumithra.B.M, Vidya Rani, Sameeksha.C, Shravya.B.L, Bindushree.P, and Ranjitha. A	Veterinary College, Hassan
04	Mime	First	Sharaddha Kharvi, Sudhanva Upadya, Neha Kumwat, Kavana.V, Chanrashekhar.D and Sunil Kumbar	Veterinary College, Hebbal, Bengaluru
		Second	Bindushree Pandit , Ranjitha.A Shaista Firdosi, Manjunath, Shashikumar Math and Kalakappa	Veterinary College, Hassan
		Third	Sandra.C.N, Vivek, Prashanth,	College of Fisheries, Mangaluru



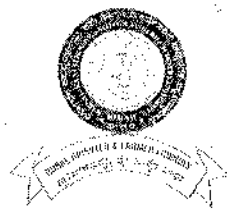
ಕರ್ನಾಟಕ ವೇತನಶಾಸ್ತ್ರ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY
BIDAR

05	Skit	First	Priyanka.R, Akshay Kumar and Vismay Sharaddha Kharvi, Manasa.M.R, Basavaraj.M Neha Kumwat, Kavana.V, and Chanrashekhar.D	Veterinary College, Hebbal, Bengaluru
		Second	Ashwini.A, Kiran Kumar.S, Shravya.B.L, Ranjitha.A, Manjunath and Kalakappa	Veterinary College, Hassan
		Third	Bhaskar Reddy.M, Tanushree, Prashanth Chandra, Pavan, Tejaswini and Surama.K.R	Dairy Science College, Hebbal, Bengaluru
06	One Act Play	First		Veterinary College, Hassan
		Second		Veterinary College, Hebbal, Bengaluru
		Third		Dairy Science College, Hebbal, Bengaluru
07	Group Dance (Folk)	First		Veterinary College, Hebbal
		Second		Dairy Science College, Kalaburagi
		Third		Dairy Science College, Hebbal, Bengaluru

The Valedictory function was organized on 21-10-15 Mr. K.M Shantharaju, Deputy Commissioner of Police, Mangaluru, Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar Dr. B.V. Shivaprakash, Director of Student Welfare, KVAFSU, Bidar were Chief Guests for the function. Dr. Shankar, K. M., Dean, College of Fisheries, Mangaluru presided over the function.

11th KVAFSU Inter-Collegiate Sports and Games Meet - 2015-16

11th KVAFSU Inter-collegiate Sports and Games meet,2015-16 was organized by veterinary college, Bidar from December 20th to 23rd -2015 KVAFSU Ground Bidar. All constituent colleges viz, Veterinary College, Bidar /Shivamogga /Hassan/Bengaluru, Dairy Sciences College Bengaluru/Kalaburagi, and college of Fisheries, Mangaluru participated in the events. The Inter-Collegiate Sports and Games Meet-2015 was inaugurated by Dr. C. Renukprasad, Hon'ble Vice-Chancellor, KVAFSU, Bidar, Shri Nagbhushan Kamthane, Shri Mallikarjun Biradar, Hon'ble Members of Board of Management, KVAFSU, Bidar, Dr. H.M. Jayaprakash, Registrar, KVAFSU, Bidar, Dr. S.M. Usturge, Director of Research, KVAFSU, Bidar, Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar, Mr. Mlikarjun Ligade, Comptroller, KVAFSU, Bidar, Dr. U.S. Biradar, D.I.(PGS), KVAFSU, Bidar. Dr. N.A. Patil, Special Officer, Veterinary College, Athani. Mr. M.K.Sathish, Estate Officer, KVAFSU, Bidar. Dr. M.M. Appanawar, Controller of Examination, KVAFSU, Bidar. Dr. U.S. Jadhav, University Librarian, KVAFSU, Bidar and Dr. Yeshwant Kumar, Professor and Head Dept of Physical Education, Veterinary College, Bidar participated as Chief Guests, Dr. B.V. Shivaprakash, Director of Student Welfare and Dean, Veterinary College Bidar presided over the function.



The Veterinary College, Shivamogga bagged **OVERALL CHAMPIONSHIP** Trophy in Athletics Meet, Runners up trophy was bagged by College of Fisheries, Mangaluru. The Individual Championship Woman Athletics, was secured by Ms. Saptami Jogonalikar, College of Fisheries, Mangaluru, Joint Individual Championship Athletics Men was bagged by Mr. Bhaskar Reddy, N. Dairy Science College, Bengaluru and Abhishek, B., College of Fisheries, Mangaluru.

The winners and Runners of the inter-collegiate sports and games meet are as follows,

#	Event	Winner & Runner up	College
1	Kabaddi Men	Winner	College of Fisheries, Mangaluru
		Runner	Veterinary College, Shivamogga
2	Kabaddi Women	Winner	College of Fisheries, Mangaluru
		Runner	Veterinary College, Bengaluru
3	Volley Ball Men	Winner	Dairy Science College, Bengaluru
		Runner	College of Fisheries, Mangaluru
4	Volley Ball Women	Winner	Veterinary College, Bidar
		Runner	Veterinary College, Shivamogga
5	Kho-Kho Men	Winner	Veterinary College, Shivamogga
		Runner	Veterinary College, Bidar
6	Badminton Men	Winner	College of Fishers, Mangaluru
		Runner	Veterinary College, Shivamogga
7	Badminton Women	Winner	Veterinary College, Bengaluru
		Runner	Veterinary College, Shivamogga
8	Basket Ball Men	Winner	Veterinary College, Bidar
		Runner	Veterinary College, Bengaluru
9	Basket Ball Women	Joint	Veterinary College, Bengaluru
		Winners	Veterinary College, Bidar
10	Chess (M/W)	Winner	Veterinary College, Bidar
		Runner	Veterinary College, Shivamogga
11	Table Tennis Men	Winner	Veterinary College, Shivamogga
		Runner	Veterinary College, Hassan
12	Table Tennis Women	Winner	Dairy Science College, Bengaluru
		Runner	Veterinary College, Hassan

OVERALL CHAMPIONSHIP IN ATHLETICS

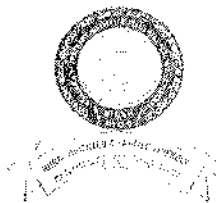
Winners: Veterinary College, Shivamogga

Runners: College of Fisheries, Mangaluru

OVERALL CHAMPIONSHIP IN TEAM GAMES

Winners: Veterinary College, Bidar (62 Points)

Runners: Veterinary College, Shivamogga (50 Points)



The Valedictory function was organized on 23-12-2015, Dr. C. Renukprasad, Hon'ble Vice-Chancellor, KVAFSU, Bidar; Mr. Sudhir Kumar, Suprintent of Police, Bidar. Shri Nagbhusan Kanthane, Shri Mallikarjun Biradar, Hon'ble Members of Board of Management, KVAFSU, Bidar, Dr. H.M. Jayaprakasha, Registrar, KVAFSU, Bidar; Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar; Mr. Mallikarjun Ligade, Comptroller, KVAFSU, Bidar; Dr. U.S. Biradar, D.I(PGS), KVAFSU, Bidar and Dr. Yashwanth Kumar, DDSW, KVAFSU, Bidar were the Chief Guests for the function. Dr. B.V. Shivaprakash, Director of Student Welfare and Dean of Veterinary College, Bidar presided over the function.

All India Inter Agri Unifest-2016

The KVAFSU Team participated in All India Inter Agri Unifest-2016 from 01st to 04th Feb-2016 at **OUAT Campus at Bhubaneswar, Odisha.**

The winners and runners of the inter-University Youth Festival are as follows,

#	Name of Event	Secured Place	Name of Winner/s
01	Drama	First	Chandrashekher D
			Basavaraj M
			Shraddha Kharvi
			Sudhanva upadyay
			Kirankumar
			Shravya
			Ashwini A
			Shivani
			Bhaskar Reddy
02	Skit	Second	Basvaprabhu H.M
			Kavana V
			Chandrashekher D
			Basavaraj M
			Neha V
			Shraddha Kharvi
			Sudhanva upadyay
03	Clay modeling	Second	Kirankumar
			Shravya
			Ekanath V M

14th All India Inter Agri University Sports and Games Meet-2015-16

The KVAFSU Team participated in 14th All India Inter Agri University Sports and Games Meet-2015-16 from 22nd to 26th Feb-2016 at **Tamil Nadu Agriculture University Coimbatore (TN).** A total contusion 43 members (Men/Women) Mr. Abhisheik Secured silver medal in 110 Mtrs hurdles, Mr. Vishwanath.D secured silver medal in 1500Mtrs and Ms. Jayashree secured silver medal in Javelin throw.

Overall performance of the University team was good some of the teams and individual events went up to quarter final and semi final level.



8) National Service Scheme (NSS)

VETERINARY COLLEGE, BENGALURU

Dr. Jagadeesh S. Sanganal and Dr. Shrikrishna Isloor were the programme officers during 2015. Currently, Dr. Isloor and Dr. Narasimhamurthy are serving as the Programme officers. The NSS Programme implemented at Veterinary College, KVAFSU, Hebbal, Bengaluru comprised of unit 1 and 2. The NSS activity for the current year started with a successful orientation program for the freshly admitted students. The following activities were organized / carried out during the period.

1) Shramadhana

The volunteers of the both NSS units were involved in cleaning the premises of the college, surroundings of library and park.

2) NSS special camp

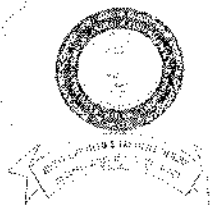
A special camp was held for the volunteers of unit 2 at ADIMA kendra, Terahalli, Kolar, Karnataka during 8th -14th April 2015. The camp was jointly organized by the NSS units under the guidance of Dr. Sanganal and Dr. Isloor and ADIMA Kalakendra, Terahalli, Kolar with a view to serve, create awareness, educate rural people and to develop leadership qualities among the student NSS volunteers.

In brief, the camp was inaugurated by Dr. S Yathiraj, Dean, Veterinary College, Bengaluru and the chief guest was Shri. Muniswamy, President, ADIMA Kalakendra.

The highlights of the camp were:

1. Early morning flag hoisting followed by warm up exercise and shramadan in the locality.
2. Presentation by Dr. S. Yathiraj on "Namma Baduku" (9th April, 2015).
3. Presentation by Shri Muniswamy, President, ADIMA Kalakendra on 'Inception of ADMIA kalakendra' (9th April, 2015).
4. Involvement of volunteers in Tank cleaning - supported by Bengaluru Lions Service Trust (BLST) (10th April, 2015).
5. Presentation by Mr. Srinivasa Narasapura on 'Impact of superstition on society' (10th April, 2015).
6. Presentation by Mr. K.S. Ganesh, District News Reporter, Udayavani on 'Impact of information media on the society' (11th April, 2015).
7. Construction activities by NSS volunteers at ADIMA Kalakendra (12th April, 2015).
8. Presentation by Mr. Kalidasa, Artist on 'Impact of fine arts in society' (12th April, 2015).
9. Shramadan at Kuppalli village by NSS volunteers (13th April, 2015).
10. Presentation by Mrs. Mamata Reddy, Secretary, Mahila Jagruti Vedike, Kolar on 'Impact of gender bias in Society' (13th April, 2015).
11. Shramadan by NSS volunteers (14th April, 2015).
12. Ambedkar Jayanti and Valedictory function.

Furthermore, the volunteers were actively involved in variety of cultural programmes and community games in the evening hours. In general the camp provided the opportunity for the volunteers to get exposed to the community living and personality development.



3) Blood donation camp

A blood donation camp was jointly organized by Veterinary College Red Cross Society Unit, NSS units, KVAFSU, Hebbal, Bengaluru in association with Indian Red Cross Society, Bengaluru, Lions Club of Basavanagudi, Bengaluru in memory of Late Dr. R. D. Nanjiah on the 9th September 2015. The inaugural programme followed by blood donation was organized at the Examination hall, Veterinary College, Bengaluru. Large number of faculty, general public and NSS volunteers donated blood.

National Integration Camp (NIC) held at University of Agricultural Sciences, Vijayapur, during 7-13th December, 2015

A seven day National Integration camp (NIC) was held by NSS this year in University of Agricultural Sciences, Vijayapur, from the 7-13th of December, 2015. Twelve Universities participated in the Camp this year, out of which the illustrious Karnataka Veterinary, Animal and Fisheries Sciences University was one of them. Four students from Veterinary College Hebbal, Bengaluru and five students from Veterinary College Bidar, along with the Program Officer from Veterinary College, Bidar, participated in the Camp. From Veterinary College, Bengaluru Under graduate students and NSS volunteers Mr. Vasudhar Bhat, Ms. Akshatha Desai, Mr. SharathChandra and Ms. Kusumita Rao participated. Dr Srikanth Kulkarni from Veterinary College, Bidar was the Program Officer. There were participants from Karnataka, Tamil Nadu, Maharashtra, Andhra Pradesh, Madhya Pradesh and Rajasthan, allowing an overview of the rich cultural heritage from different parts of India.

The competitions were held over a period of three days during the middle part of the camp, on 9th, 10th and 11th of December. Competitions such as slogan writing, elocution, group song, rangoli making, quiz, clay modelling and others were held to build a feeling of healthy competition. In the evening hours, the cultural programs were organized for volunteers to exhibit their talents as individuals or as a team. The volunteers from Veterinary College, Bengaluru performed well in the competitions and brought laurels to the institution. The KVAFSU placed first in Group Song (Mr. Vasudhar Bhat, Mr. SharathChandra, Ms. Akshatha Desai, Ms Kusumita Rao were the members of the team), Second in Elocution (Ms. Kusumita Rao) and Second in Slogan writing (Mr. Vishal). Overall, it was a wonderful experience for the volunteers. Being able to interact with people from different backgrounds and cultures and had an opportunity to serve the society, the participant NSS volunteers realized their responsibility in building the nation.

A State level NSS Youth Fest Camp organized at Ujire, in Sri Dharmasthala Manjunatheshwara College, during 9-13th April 2016

A state level NSS Youth Fest Camp was organized at Ujire, in Sri Dharmasthala Manjunatheshwara College, for a period of five days from 9th April 2016 to 13th April 2016. Fifteen Universities including the KVAFSU, Bidar team participated in the camp. Mr. Basavraj and Ms. Kusumita from Veterinary college, Bengaluru were the team members. The competition among various teams which included the procession competition. Each team demonstrated various social issues like women empowerment, children education, farmer's suicides, etc. KVAFSU, Bidar team demonstrated about cow slaughter and clean milk production. The KVAFSU team won first place in Group Song, third place in Solo Dance, first place in Debate, first place in Skit, first place in Exhibition and won the 'Overall Runners up' position.



VETERINARY COLLEGE, BIDAR

Two National Service Scheme units with 180 registered Volunteers are working at Veterinary Collage Bidar. The NSS units are level. The various NSS regular activities are carried out by both NSS units as follows.

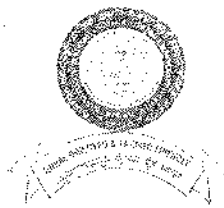
NSS Programme Officer Unit-I	Dr. Shrikant Kulkarni Associate Professor, Dept of Veterinary Physiology and Biochemistry
NSS Programme Officer Unit-II	Dr. Vinaya Tikare Assistant Professor, Dept of Veterinary Pharmacology & Toxicology

Abstract of NSS regular activities, Veterinary College, Bidar

NSS units	Allocated Volunteer Strength	Actual Enrolment	Blood Donation	Tree Planted
Unit-I	115	115	Two Blood Donation	156
Unit-II	115	115	Camps (>30 Units)	144

Unique activities:

#	Name of the events	place	No. of beneficiaries/ units
1	Mass Gliricidia Sowing Programme	Near Sindhol Thanda of Bidar taluka on 20.06.2015. This Campaign was organized by Department of Agriculture, Bidar and Krishi Vignyan Kendra, Bidar along with several NGOs. Our Volunteers sown the seeds along Bunds	100 Hectares land covered under this programme
2	World Yoga Day	21 st June 2015- Administrative Block- KVAFSU Bidar	150 students, teaching and non teaching staff
3	Hon'ble Vice-Chancellor, Dr. C. Renukprasad inaugurated the programme and highlighted importance of performing Yoga regularly to stay healthy. Shri. Narayana Guruji , Chief Advisor to Sri Satya Sai Group of Institutes and Yoga therapist gave lecture on Yoga and demonstrated various "asanas" that can be regularly practiced by everyone.		
4	Vanamahotsava 15-07-2015	Hon'ble Vice-Chancellor Dr. Renuka Prasad inaugurated the event by planting tree. University officers and teaching & non-teaching staff also participated in this programme along with the students. During August- September, 2015- Volunteers planted around 300 saplings KVAFSU Campus behind main building	300 saplings
5	NSS Day	24 th Sept 2015. Conference Hall, Veterinary College, Bidar. Dr. Shri. Subhash Reddy,	80 Volunteers



		Principal, Bhoomreddy College, Bidar, Principal Bhoomareddy College, Bidar was the chief guest and Dr. B.V.Shivaprakash, Dean, Veterinary College, Bidar presided over the programme.	
6	Gandhi Jayanti (International Non-Violence day)	2 nd Oct, 2015. Gandhi Jayanti celebrated and Non Violence Oath administered to faculty and student volunteers. It was followed by Campus cleaning by Volunteers.	Volunteers of Unit I & Unit II along with teaching and non-teaching staff participated.
7	Participation in National Integration Camp	College of Agriculture, Vijayapura during 7 th - 13 th Dec, 2015. Five volunteers were from Veterinary College, Bidar viz., Mr. Karan Hosmani (VBK 1117), Mr. Shivanand (VBK 1150), Mr. Vishal (VBK 1160), Mr. Basavaraj Mokashi (VBK 1210) and Mr. Prashant Doddamani (VBK 1239).	University contingent bagged the First Place in Folk Song, Second Place in Slogan Writing and Elocution

Annual NSS special Camp-2015-16

Students of I year and II year B.V.Sc & A.H. participated in the annual NSS special camp held at Kangankot, Bidar from 10th to 16th March 2016.

The central Theme of this year annual NSS special camp was on "Swacchha Gram; Swasta Gram" (ಸ್ವಚ್ಛ ಗ್ರಾಮ; ಸ್ವಸ್ಥ ಗ್ರಾಮ)

Dr. Shrikant Kulkarni, Associate Professor (VPB), Dr. Vinay Tikare, Assistant Professor (VPT) and Dr. Ananth Rao Desai, Assistant Professor (VAHEE) were the camp officers while Dr. B. V. Shivaprakash, Dean Veterinary College Bidar was the Camp Director.

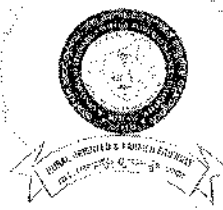
The Camp was inaugurated by Dr. C Renukaprasad, Vice Chancellor, KVAFSU, Bidar in the programme organized by Volunteers at Village premises on 10-03-2016. Dr. C. S Patil, Registrar (Evaluation) Kalaburagi University addressed the Volunteers and villagers as Chief Guest and called upon the Villagers to cooperate with Volunteers and make use of university service. The programme was presided by Dr. B. V. Shivaprakash, Dean, Veterinary College, Bidar. NSS programme officers and other faculty of Veterinary College Bidar and village leader were present.

During the camp volunteers participated in the range of Shramadan activities like cleaning the drainage, roads and public places

During this annual special camp every day evening, the guest lectures and interactive sessions were held for the benefits of volunteers on various topics by inviting experts from different field like Animal Husbandry Agriculture Woman employment and cleanness importance.

An awareness Jatha on cleanliness was organised on 12-03-2016 by involving village youth and school children's. This event was organised with co-operation from Gram Panchayat, Mandakanalli.

As a part of camp, Demonstration on Vermicompost preparation was organized. Dr. Mahantesh Nekar, Dr. Prakash Kumar Rathod and Dr. Ananth Rse Desai, Faculty of Veterinary College, Bidar demonstrated and around 50-60 farmers were made aware of Vermicompost preparation.



Date	Topic	Resource Person
11-03-2016	Agriculture department programmes	Smt Anusuya Hugar, Assistant director (Agri), Bidar
	Soil Health Protection in agriculture	Dr.R L Jadhav, SMS, KVK Bidar
	Improved agricultural practices	Dr. Mallikarjun Lingadalli, SMS, Bidar
12-03-2016	Livestock Feed Management	Dr. Tirumalesh, Professor, Veterinary College,, Bidar
	Livestock Health Management	Dr. Ravindar B. G, Associate Professor, Veterinary College, Bidar
	Control of animal diseases	Dr. Prahlad Ubale, Inservice Ph.D Scholar, Veterinary College, Bidar
	Programmes and Services of Animal Husbandry Department	Dr. Narasappa A D, Assistant Director, Dept of AH & VS, Bidar
13-03-2016	Swaccha Bharat Programme	Dr. Goutam Aralli, Swaccha Bharat Nodel Officer of Zilla Panchayat, Bidar
	Human Health and nutrition	Dr. Ravindranath Bhoji, Assistant Professor, BRIMC, Bidar
	Zoonotic diseases of rural importance	Dr. Pradeep Swamy, Assistant Professor, VC, Bidar
14-03-2016	Activities of Self Help Group in Bidar and livelihood promotion	Shree Subrmanyaa Prabhu, Director of Sahardha Society, Bidar
	NABARD programmes for farmers	Shree. Venkatesh Patil, NABARD Manager

The valedictory programme of the camp was held on 16th march, 2016 in the presence of Dr. Yashawantakumar, Director of Students' Welfare, KVAFSU, Bidar. The NSS camp officers and Volunteers narrated the activities carried out during the camp and the guests urged the villagers to maintain their premises clean and neat for better health, progress and prosperity.

VETERINARY COLLEGE, SHIVAMOGGA

The College has received prestigious "NSS State Award" as a Best NSS Unit for the year 2014-15 in recognition of meritorious services rendered in the field of NSS

NSS Regular Activities for 2015-16: From April 2015 to March 2016

June-2015: Planning for plantation and pits made for plantation with the support of Forest Department.

August-2015: Plantation continued at our college campus

15th August 2015: Independence Day was celebrated. On this occasion all staffs, students of college and Forest Department official were participated in Shramadaana towards plantation and cleaning of plastics.



September-2015: Prepared badminton court at quadrangle of the college by Shramadaana

19th September-2015: Felicitation to forest dept for support of plantation at our campus.

October-2015: Watering of plants made.

1st October 2015: Poster and Slogan writing competition held on the topic “Swaccha Bharath Abhiyaan”.

2nd October 2015: Gandhi Jayanti celebrated, oath pledge made towards the cleanliness of our college and Shramadaana made by all staff and volunteers.

November-2015: Watering of plants and cleaning at our college.

21st November 2015: NSS Advisory Committee meeting was held regarding progress and planning for NSS activity.

December-2015: Plant survey made by volunteers at our campus.

20th December 2015: Swacch Bharath Abhiyaan held at Devakatikoppa village, Shivamogga taluk. In this Abhiyaan, Swacch Bhaarath Jatha, Street Play and Shramadaana made by our college staffs and volunteers.

January-2016: Various group activities like Quiz Programme, Word Building Games and Team Games organized by volunteers held in this month.

12th January-2016: National Youth Day -Vivekananda Jayanti was celebrated.

17th January-2016: NSS volunteers given orientation programme by Secretary and Joint Secretary of Youth Hostel, Shivamogga regarding Trekking Programmes and facilities available at Youth Hostels in India.

February-2016: Watering of plants

March-2016: Watering of plants, Blood Grouping and Orientation regarding NSS annual special camp given to volunteers and preparation made towards NSS annual special camp. This year's NSS annual special camp planned in Ragihosalli village, Shivamogga taluk.

14th March-2016: Blood Donation Programme was conducted and 25 units of blood donated to Rotary Blood Bank, Shivamogga.

NSS Annual Special Camp was planned to conduct between 26th March to 1st April, 2016 in Ragihosalli village, Shivamogga taluk.

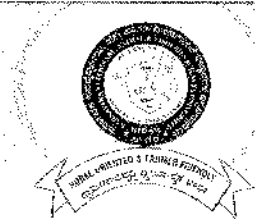
In summary, NSS Regular activities at our college included watering of plants, Deweeding, Mulching, Cleaning of Play Ground and College Premises, Orientation, Presentation by students and Adaptation of plants by volunteers were made. Still there is a vast scope for conducting and performing NSS activities at our campus.

NSS Annual Special Camp: 26/03/16 to 31/03/16:

NSS Annual Special camp was organized at Yadavala Village, Konagavalli Gram Panchayati, Shivamogga Taluk from 25/03/2016 to 31/03/2016.

Prof. R. V Prasad Dean was Camp Director and Dr.Rudresh B. H. the Camp Programme Officer. Dr.Vani., Veterinary Officer, Harnalli, Dr. Gopal G. T , Dr. Venkatesh M.

NSS Annual Special camp was inaugurated by Smt. Subha Shanmukappa, GP Vice-President and presided by Smt. Jayabhai Girish Nayak member GP, Konagavalli, Prof. Veeranna K. C., Prof. V. B. Shetter, Prof. Nagabhushan, Veterinary College, Shivamogga graced the function and Sri.



Girish Nayak, Sri Ranganath and Sri Gurulingappa and other villagers were actively present at camp and also staff and students of Veterinary College, Shivamogga were present.

Male volunteers were accommodated in Godown, Agriculture market produce association, Yadavala and Female volunteers accommodated in two houses of Yadavala village. Morning activities were conducted in village premises. The evening and cultural programmes were arranged at the MPCS, Yadavali premises and food preparation was carried out in the godown.

ACTIVITIES OF NSS ANNUAL SPECIAL CAMP:

- Shramadaana, Swacch Bharath Abhiyaan and Parisara Jaatha
- Village survey made regarding socio-economic status and livestock health status.
- Animal Health Camp and Deworming camp was conducted
- Livestock show was conducted
- Balanced Ration and Raniketh vaccination method was demonstrated
- Milk Product Preparation was demonstrated
- For villagers, Quiz and Rangoli competition and other activities were organized
- Day to day basic yoga practices were demonstrated by program Co-ordinator himself
- The temple premises were cleaned and existing plants were supported with water holding paths.
- Educative awareness programmes for villagers and volunteers.
- Cultural programme by volunteers and villagers

All the activities of students were well appreciated by villagers. In the coming days it was sure that linkage between the Yadavala village and volunteers will be maintained. Overall the basic objective of NSS, learning and living in village life by volunteers was fulfilled. Valedictory function was held on 31st March, 2016 at 11.00 AM

VETERINARY COLLEGE, HASSAN

#	NSS regular and Special camp Activities done for the year 2014-15
1	Eye care camp was organized for the students and staff of the college on 03-07-2015 in collaboration with Vasanth Eye Care, Hassan. About 350 members got the benefit of the camp along with free consultation for their family members also.
2.	NSS unit, Veterinary College, Hassan organized a Blood donation camp on 08-07-2015 in association with Ex-Servicemen Association of Hassan. 50 units of blood was donated to Sri Chamarajendra Government Hospital Blood Bank, Hassan.
3.	NSS day was celebrated on September 24, 2015. On the occasion Kumari Yogishwari Akka of Bhradhakumari Foundation spoke on 'Role of youth in development of India'. Dr. Vasanth M Shetty, Dean, presided the function and highlighted the importance of veterinary service for the farming community and society in general.
4.	NSS volunteers of Veterinary College, Hassan, namely, Arun Subhash, Yashwanth Pratap, Devindra, Sangamesh and Roopa represented KVAFSU in State Level Youth Festival organized by Shanthi college, Mandya on behalf of Centenary year celebration of Mysore University, Mysuru and bagged runner-up position in exhibition category.



DAIRY SCIENCE COLLEGE, BENGALURU

Dairy Science College, Bengaluru students are actively involved in various regular and annual special camp activities.

Student volunteers participated in different services, mainly involving in yoga classes, blood donation, fund raising for earthquake victims, cleaning, removal of waste and plastics, students are exposed to village atmosphere during special camp where they are exposed to exercise, yoga and shramadana in maintaining cleanliness in the village and arranged evening talks for the benefit of unemployed youth, Dairy farmwomen and house wives, given special attention to unemployed youths to take up Dairy activities or dairy entrepreneurship.

April -2015

Orientation for NSS volunteers
Cleaned the college area and ksheeradara milk parlour

May -2015

Raised fund for earthquake victims and Rs 6000/(six thousand only) was remitted to Prime Ministers National Relief Fund on 14.5.2015
Maintenance of the garden plants -pruning, removal of dried leaves and stem of the plants and trees, cleaning terrace, building sajjas

June-2015

Involved in the celebration of world milk day on June 1st. Dr.Narasimha Murthy was presided over the function. Milk was distributed to the school children after talk given to children by Dean on various aspects of milk. Removed plastics in and around college and campus school
Celebrated international day of yoga (18.6.2015 to 21.6.2015)
Celebrated world environment day on 5th
On 27th June 2015, NSS Volunteers of the college Sudeep, Soumyashree and Anand were donated blood at Columbia Asia Hospital, Yeshwanthapur to an open heart surgery patient within a short demand notice and saved life.

July-2015:

Engaged in cleaning of college, parlour and hostel premises

Aug -2015:

Cleaning of college premises , Participated in independence day celebration on 15th August, 2015

Sep-2015:

Removed plastics, cleaned fountain and made college premises clean

Oct -2015:

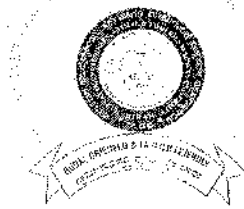
Removed plastics and wastes in the college premises

Nov-2015:

Watering the plants, cleaned the SEDP and milk parlour area

Dec-2015:

Planted Christmas tree in front of the Dairy Science College, Bengaluru
Watered the garden plants.



Cleaning the fountain

Jan-2016:

Conducted annual special camp at Gundammagere village, Doddaballapur from 25.1.2016 to 31.1.2016

Feb-2016:

Conducted Shramadaan at Jalianwalabagh, Amritsar during north India educational tour

Mar-2016:

Cleaning of fountain in front of the college premises

Cleaning, watering the plants and removed plastics

Summary –NSS - Annual Special Camp

Gundammagere village, Doddaballapur from 25.1.2016 to 31.1.2016

Routine schedule of the camp:

- a) 5.30 AM to 6.30 AM: Morning rituals
- b) 6.30AM to 6.45 AM: Flag hoisting and pratigna vidi, Patriotic songs
- c) 7 AM to 8 AM: Exercise and Yoga
- d) 8 AM to 8.30 AM: Breakfast
- e) 8.30 AM to 12 PM: Shramadana
- f) 12 to 1 PM: Bath and cloth washing
- g) 1 PM to 2 PM: Lunch
- h) 2 PM to 5: Cleaning of premises and preparation for evening program
- i) 5 to 8: information to the farmers regarding clean milk production and excess milk utilization in the preparation of dairy products at village level
- j) 8-9 : Assisted in kitchen works
- k) 9.00: Dinner, Planning for the next day, dinner and diary writing
- l) 10.30 PM-sleeping

Reached Gundammagere village on 25.1.2016 and accommodated girls and boys separately in various farmers' houses. Cleaned the kitchen place and residential area. Introduced our students to villagers, later on students and villagers exchanged their thoughts and intension of NSS camp. Students collected information about the dairying, farm land, area, water, electricity, transport, economical status, tradition, by-products utilization etc. Cleaning of MPCs premises and functioning hall of the village.

The programme was inaugurated by Dean Dr. Narasimha Murthy.

Achievement: Student volunteers were involved in construction of home of a dairy farmer

DAIRY SCIENCE COLLEGE, KALABURAGI

NSS Camp was organized by programe Co-Ordinator Mr. Devaraju R, Assistant Professor and Head, Dairy Engng. Dept. from 15.12.2015 to 25.12.2015 at Dannur(R) village, Bidar Dist.



COLLEGE OF FISHERIES, MANGALURU

1. NSS Annual Special Camp:

A seven day NSS annual special camp was organised from 24 to 30 April, 2015 at Bengre village, Dakshina Kannada. The camp was organised by the National Service Scheme Unit of the College jointly with M/s Mahajana Sabha, Bengre and M/s Vidhyarthi Sangha, Bengre. Mrs. Jasinta V. Alfreed, Mayor, Mangaluru City Corporation was the inaugurator of the camp. Mrs. Meera K. Karkera the acting Corporator and Mrs. Shakunthal D. Karkera, former Corporator were the Chief guests. Sri Shekar Suvarna presided over the inaugural function. Dr. A.T. Ramachandra Naik, NSS Programme Officer was the coordinator of the camp.

Important activities carried out during the camp were: Preparation of garden and watering the garden plants, cleaning the temple surroundings, Beach cleaning, Clearing of weeds and picking up of waste materials including plastics around temples and schools, Road and drainage repair. NSS volunteers were assigned the works to visit local panchayath, fishermen association, youth clubs, net making yards, fish market. to study the problems of the fishermen. There were visits to fish landing center to study the fish landings, auctioning of fish, icing, packing, trading and transportation. Volunteers were also exposed to work with self help groups and directed to collect various information on their activities, programmes, duties and problems faced by them in addition to various schemes available from the government and the extent of implementation.

Yoga, Meditation, Shramadhan activities, Cultural programmes such as singing, dancing, mono acting, mime, rangoli competition. involving village children, unemployed youths, house wives and the student volunteers. Student volunteers were placed in the fish curing and drying yard to study the methodologies adopted by the fishermen for processing of fishery products and suggestions to improve the latest techniques in curing and drying of fishes. Talks by the subject matter specialists were also organized on various aspects.

2. NSS regular activities

International Yoga Day:

The unit of National Service Scheme of the College in collaboration with 'Pranava Yoga and Naturopathy Centre' Mangaluru celebrated the 'International Yoga Day' on 20th June, 2015 in the College Auditorium. Dr. Rajesh Padekal, Managing Trustee from Pranava Health Trust was the Chief Guest. Dr. K.M. Shankar, Dean (Fisheries) presided over the function. Dr. A.T. Ramachandra Naik, NSS Programme Officer coordinated the programme and arranged one day Yoga camp.

State NSS Coordinators meet:

As representative of KVAFSU, Dr. A.T. Ramachandra Naik attended the Annual NSS Coordinators meet held at NITTE University, Mangaluru on 23rd November, 2015. During this meet, he has presented the NSS activities of constituent colleges of KVAFSU.

Other regular activities:

NSS regular activities were conducted periodically involving student volunteers like campus cleaning programme, planting of fruit and flower yielding saplings, garden plants, watering, clearing of



weeds, unwanted materials include broken tiles, tires, concrete bricks, tree branches, bushes and picking up of plastics. Dr. A.T. Ramachandra Naik, NSS Programme Officer coordinated the various activities.

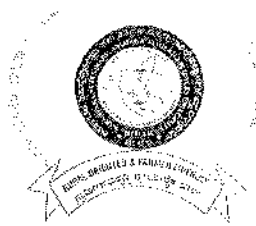
NSS activities during March, 2016:

A campus cleaning programme was organized on 2nd March, 2016. Dr. S.M. Shivaprakash, Director of Extension, KVAFSU was the Chief Guest. Dr. K.M. Shankar, Dean, College of Fisheries, Mangaluru presided over the function, Dr. A.T. Ramachandra Naik, NSS Programme Officer coordinated the campus cleaning programme involving all the UG and PG students and teaching and non-teaching staff of the college.

A campus cleaning programme was also organized in Technology Wing of College of Fisheries, Mangaluru at Hoige Bazar on 10th March, 2016. Dr. K.M. Shankar, Dean (Fisheries) inaugurated the programme and addressed the students that every individual was responsible for keeping the surrounding clean and neat. Dr. C.V. Raju, Head of the Dept. of Fish Processing Technology and Dr. B. Hanumanthappa, Head of the Dept. of Fisheries Engineering and Technology were present during the occasion. Dr. A.T. Ramachandra Naik, NSS Programme Officer coordinated the campus cleaning programme. All the teaching, non-teaching staff and *I B.F.Sc. & II B.F.Sc.* students were involved in the cleaning programme.

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY, TIPTUR

Animal Husbandry Diploma Students were involved in cleaning activities in and around premises of the campus at regular interval they were also involved in all the agricultural activities of LRIC(A), Konehalli.



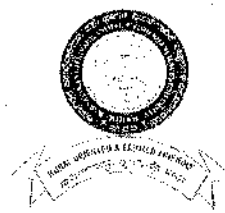
9) Other Co-curricular Activities

VETERINARY COLLEGE, BENGALURU

#	Date	Activity
Veterinary College, Bengaluru		
1	09.09.2015	Conducted blood donation camp in association with Indian Red Cross Society, Karnataka Branch.
2	05.03.2016	Dr. M. Narayana Swamy served as Coordinator to organise the Campaign on "Ambedkar for Youth and Democracy" conducted by National Law School of India University (NLSIU), Bengaluru on 05.03.2016 at Veterinary College, Bengaluru for the undergraduate and postgraduate students.
3	10-11 th April, 2015	Dr. D. Rathnamma, Professor & Head - attended Meeting for Revision of VCI-MSVE Regulations 2008 (Subject-wise syllabus) at College of Veterinary Science & Animal Husbandry, Nanaji Deshmukh Pashu Chikitsa Vigyan Vishwavidyalaya, Rasalpur, Mhow - 453 446, Indore, M.P.
4	20.06.2015	Dr. D. Rathnamma- Served as Assistant Coordinator for conducting All India Pre-Veterinary Test -2015 (AIPVT-2015) conducted by VCI, New Delhi
5	28.09.2015	Dr. S. Isloor, - Co-ordinated and Organized 'World Rabies Day' on 28 th September, 2015' at Veterinary College, Bengaluru, and launched RFFIT (Rapid Fluorescent Focus inhibition test (RFFIT) on charge basis for estimating anti rabies antibodies in vaccinated dogs and cats. This programme was telecasted in Doordarshan for public awareness.
6	22.02.2016 to 26.02.2016	Dr. D. Rathnamma, - served as Selection Committee member of Union Public Service Commission, New Delhi for selection of Deputy Assistant Directors (9 posts) for Central Research Institute, Kasauli, Himachal Pradesh, at UPSC, New Delhi.

WORLD RABIES DAY-2015 'End Rabies Together'

World Rabies Day, which is founded by the Center for Disease Control and Prevention (CDC) and GARC, aims to unite relevant partners to address rabies prevention and control. This day symbolises the death anniversary of Louis Pasteur, the French Scientist, who first developed and immunized the human being against rabies. Through 'World rabies day programme' over 100 million people have been educated and over 3 million animals have been vaccinated against the disease. The primary objective of the day is to bring and raise awareness about both human and animal rabies. The day is also about teaching everyone about the impact of rabies, its prevention and how to eradicate sources of the disease across the world. The theme this year is 'End Rabies Together'. The majority of rabies related deaths is in Africa and Asia. Children are particularly vulnerable because they are most likely to be bitten by dogs with uncontrolled rabies. This major source of rabies can be avoided through pet vaccination, education of children and ensuring proper diagnosis and access to sero monitoring of vaccinal antibodies in addition to medical resources. Keeping all these in view, the Rabies Diagnostic Laboratory, Department of Veterinary Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru, was established during the year 2013. One of the primary aims of the laboratory is diagnosis of rabies in dogs, other domesticated and wild animal species using Direct Fluorescent Antibody (DFA) Test, which is the Gold Standard Test approved by WHO / OIE. Further, in order to monitor the antibody titre, Rapid Fluorescent Focus Inhibition Test (RFFIT) has



been standardized in this laboratory. In order to provide service to the animals and animal owners, this facility has been extended to the public and the same is being done on charge basis.

On 28th September 2015, World Rabies day was observed by organizing, a poster competition on the theme for students, increasing awareness among students about the need to 'End Rabies' and launching of RFFIT service. The programme was presided by Dr. S. Yathiraj, Dean, Veterinary College, Bengaluru, Dr. S. Abdul Rahman, President, CVA and Chairman, OIE, Animal Welfare working group, was the Chief Guest, Dr. B.C. Ramakrishna, President, Karuna was the guest of honour and Dr. Shrikrishna Isloor was the Convener. Dr. D. Rathnamma, Prof. and Head, Dept. of Veterinary Microbiology welcomed the gathering at Dr. R.D. Nanjiah Hall, Veterinary College, KVAFSU, Hebbal, Bengaluru.

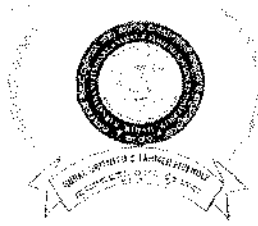
VETERINARY COLLEGE, HASSA

#	Date	Activity
1	25 th April, 2015	World Veterinary Day celebrations
2	22 nd July, 2015	Student Souvenir Release Programme
3	31 st Dec., 2016	Ethnic day Celebration
4	22 nd Feb., 2016	Vet-Fest 2016 (Intercollegiate cultural competition for the different college students of Hassan)
5	3 rd March, 2016	Fresher's day celebration

DAIRY SCIENCE COLLEGE, BENGALURU

Dairy Science College, Bengaluru

#	Date	Activity
1	7-14 th May, 2015	Raising funds to help earthquake victims of our neighbouring country Nepal
2	1 st June, 2015	Celebrated World Milk Day
3	5 th June, 2015	Celebrated World Environment Day
4	18-21 st June, 2015	International Day of Yoga.
5	19-20 th November, 2015	A National level Management meet " <i>Escares- 2015</i> " was organized by the students of MBA (Food Business), Department of Dairy Economics and Business Management, Dairy Science College on 19 th and 20 th of November, 2015 with the theme " <i>CSR to Ameolieriate Agrarian Crises</i> ". Ten Colleges from throughout India participated and won various prizes.
6	4-5 th December, 2015	B.Tech (D. Tech) Students participated in " <i>TEMPORA-15</i> ", National level Management meet organized by Indian Institute of Plantation Management, an autonomous organization of the Ministry of Commerce and Industry, GOI) and won Overall Championship
7	26 th November, 2015	Indian Milk Day celebrations were held on the occasion of the Birth Anniversary of Dr. Verghese Kurien, the father of White Revolution in India.
8	25 th January to 3 rd February, 2016	10 days Rural Dairy Work Experience Programme was conducted for final year B. Tech. (D. Tech.) students at Gundamgere Village,



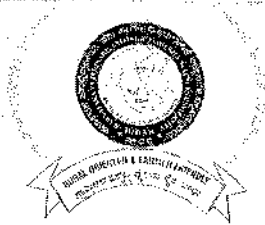
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ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

#	Date	Activity
1	14-04-2015	Ambedkar Jayanti: Ambedkar jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon. Students participated in elocution regarding life and achievements of Bharat Ratna Dr. Baba Saheb Ambedkar.
2	21-04-2015	Basava Jayanti: Basava jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon.
3	27-10-2015	Valmiki Jayanti: Valmitki jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon.
4	01-11-2015	Kannada Rajyotsava: Kannada Rajyotsava was celebrated at Animal Husbandry Polytechnic, Shiggaon with great fervor.
5	28-11-2015	Kanaka Dasa Jayanti: Kanaka Daasa jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon. Students recited Vachanas of various Daasas.
6	15-08-2015 & 26-01-2016	Independence day and Republic Day: Independence day and Republic day were celebrated at Animal Husbandry Polytechnic, Shiggaon with great fan fare. Students participated in patriotic songs singing and elocution on the Indian National Movement.

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY, TIPTUR

Sl.No.	Date	Activity
1	14.04.2015	Celebration of Dr. B.R Ambedkar Jayanthi
2	25.04.2015	Celebration of World Veterinary Day
3	05.06.2015	Celebration of Environment Day
4	15.08.2015	Celebration of Independence day
5	05.09.2015	Celebration of Teachers Day
6	02.10.2015	Celebration of Gandhi Jayanthi
7	01.11.2015	Celebration of Karnataka Rajyotsava.
8	12.11.2015	Celebration of First Year Students Welcome Party
9	14.11.2015	Celebration of Children's Day
10	01.12.2015	Celebration of World AIDS Day
11	26.01.2016	Celebration of Republic Day



II. RESEARCH

University is vested with the mandate of Teaching, Research and Extension. Various research activities in the sphere of Veterinary, Animal, Dairy and Fisheries Sciences are being undertaken at different organizations/institutions.

1) Completed Projects

a) Project Details

Dept.	Title	Funding Agency	Budget (in lakhs)	Yr. of Comt.	Yr. of Compl.	Principal Investigator
VETERINARY COLLEGE, BENGALURU						
AGB	Molecular genetic studies on traits of economic importance in Mandya sheep and its variants.	KVAFSU	Nil	2013	2015	Dr. R. Nagaraja
AGB	MHC and Fecundity linked microsatellite analysis in goats in Karnataka.	KVAFSU	0.80	2013	2015	Dr. R. Jayashree
AGB	Polymorphism of meat quality genes and their association with carcass traits in Mandya lambs.	KVAFSU	0.60	2014	2015	Dr. Naveen Kumar, S.
LPM	A study on performance of rabbits with azolla feeding.	KVAFSU	0.50	2014	2015	Dr. Y. B. Rajeshwari
LPM	In vitro evaluation of complete diets based on Cactus (<i>Opuntia ficus indica</i>) for ruminant feeding	KVAFSU	0.30	2014	2015	Dr. Y. Madhura
VAHE	Popularisation and Intensive cultivation of Medicago Sativa (Lucerne) for Sustainable dairy farming in Gowribidanur Taluk	KVAFSU	0.20	2014	2016	Dr. V. Jagadeeswary
VBC	IEF study of LDH isozymes in colored birds	KVAFSU	-	2012	2016	Dr. V. Girish Kumar
VPA	Studies on Ovine Theileriosis by using Polymerase Chain Reaction	KVAFSU	0.75	2015	2016	Dr. G. S. Mamatha



VPA	Invitro efficacy of diatomaceous earth, citrus peel extract and neem oil on control of fleas in sheep	KVAFSU	0.10	2015	2016	Dr. Puttalakshamma, G.C.
VSR	Evaluation of cold plasma in management of wound	ICAR	1.30	2015	2016	Dr. S. Yathiraj
PSc	Strengthening of poultry feed analytical laboratory at Veterinary College, Hebbal, Bengaluru	GoK	140.0	2013	2016	Dr. K. Venkata Reddy
PSc	Effect of supplementation of processed vegetable market waste on growth performance of chicken	M/s Vennar Organics Pvt Ltd Bengaluru	1.43	2014	2016	Dr. Malathi, V.
VMC	Evaluation of Brucella abortus strain 19 reduced dose conjunctival route vaccination in bovines	Indian Immunologicals Ltd. Hyderabad	3.00	2014	2014	Dr. Shrikrishna Isloor C
VETERINARY COLLEGE, BIDAR						
VPB	Parthenogenetic Activation of Buffalo Oocytes: Effect of Different Activation Protocols	KVAFSU, Bidar	0.80	2014-15	2015-16	Dr. Sathisha. K. B
VPH	Detection of Adulterants in Market Milk of Bidar District	KVAFSU, Bidar	0.50	2014-15	2015-16	Dr. Arun Kharate
VPT	Evaluation of Druggability Targets of Salmonella Sps. In Broilers	KVAFSU, Bidar	0.50	2014-15	2015-16	Dr. Vijaykumar. M
VMD	Assessment For Insect Repellent Property Of Herbs Against <i>Culicoides</i> Midges	KVAFSU, Bidar	0.30	2014-15	2015-16	Dr. Ravindra B G
VSR	Development of cost effective and field applicable fracture fixation techniques in cattle and buffaloes	KVAFSU, Bidar	0.35	2014-15	2015-16	Dr. Shivaprakash B.V



VGO	Effect of GnRH administration on day 15 th on postpartum fertility Kenguri Sheep	RKVY	-	2013-14	-	Dr R G Bijurkar
AGB	Genotyping of Kenguri and Nari-Suwarna strain (Deccani X Garole) for <i>FecB</i> gene	KVAFSU, Bidar	0.75	2015-16	2015-16	Dr. Yathish H M
LPM	Comparative efficacy of herbal product supplementation in improving growth, performance and carcass quality in broilers.	Ayurved Ltd., Katha, Baddi, Dist.- Solan (H.P.)	0.68	2015-16	2015-16	Dr. N. V. Jadhav
VETERINARY COLLEGE, SHIVAMOGGA						
AGB	Survey of management and breeding strategies adopted by Malnad Gidda Cattle Rearing farmers in Shivamogga District	KVAFSU, Bidar	0.20	2013	2015	Dr. V.B.Shettar
VPT	Analysis of PK-PD properties of veterinary antimicrobials with reference to current MIC values against common pathogens	KVAFSU, Bidar	0.40	2016	-	Dr. Pavithra B.H
VPT	Pharmacokinetic and tissue residue analysis of enrofloxacin/ ciprofloxacin in poultry (broiler) with special reference to PK-PD interpretation against common pathogens.	KVAFSU, Bidar	0.50	2016	-	Dr. Prakash N.
VAE	Study on Self Help Groups (SHGs) and their Income Generation Activities in Shivamogga District and Identification of Constraints with respect to livestock Production activities	KVAFSU, Bidar	0.10	2013	2016	Dr.Gopala.G.T
VPA	Studies on prevalence of GI parasites of wild animals of Shivamogga region	KVAFSU, Bidar	0.35	2014	2016	Dr. Ananda K J



ILFC	Effect of feeding lignocellulose on performance of Broilers	KVAFSU, Bidar	0.20	2013	2015	Dr. Umesh B U
VETERINARY COLLEGE, HASSAN						
Dept of Veterinary Parasitology	An abattoir survey of gastrointestinal and tissue parasites of pigs in Hassan	KVAFSU, Bidar	0.40	2015	2016	Dr. H. Dhanalakshmi
Dept of Veterinary Parasitology	Study on Cryptosporidiosis in Ruminants and pigs in Hassan	KVAFSU, Bidar	0.20	2015	2016	Dr. M. Veena
TVCC	Ultrasonography in the diagnosis of Gastro intestinal (GIT) disorders in ruminants	KVAFSU, Bidar	0.15	2015	2016	Dr. Manjunatha, D. R.
TVCC	Study on physico-chemical characters of rumen fluid of cross bred cattle from rural and suburban areas of Hassan	KVAFSU	0.20	2015	2016	Dr. Shivakumar, V.
VSR	Studies on etiological aspect & surgical management hoof lesions in dairy cattle in and around Hassan District	KVAFSU	0.30	2014	2016	Dr. Nagaraju, N.
VSR	Studies on bovine papilloma in Malnad area and its surgical management	KVAFSU	0.25	2013	2015	Sudeesh Nair
AGB	A study on morphological and carcass traits of Hassan breed of sheep	KVAFSU	0.35	2015-16	2015-16	Dr. G.S. Naveenkumar
Dept of Veterinary Medicine	Alternative therapeutic management of mange infestation in pigs	KVAFSU, Bidar	0.40	2015	2016	M.C. Anil Kumar
ANN	Establishment of data on hindgut fermentation kinetics of pig diets using <i>in-vitro</i> gas production technique	KVAFSU	0.20	2014	2016	Dr. H.S. Madhusudhan



DAIRY SCIENCE COLLEGE, BENGALURU

DT	Development of Health Food for Enhancement of Immunity in Geriatrics	DST, New Delhi	19.41	2013	2016	Dr. D. B. Puranik
DC	Utilization of Whey for the Production of oral Rehydration	KVAFSU Bidar	1.00	2015	2016	Mrs. Pushpa, B.P
DEBM	To study the inter-sectoral linkage in urban fringe agriculture – a case study of Melekote village, Bengaluru Rural	KVAFSU Bidar	0.25	2015	2016	Dr. Lalith Achoth & Mrs. Reshma. M

DAIRY SCIENCE COLLEGE, KALBURGI

DC	Physico Chemical and Microbiological analysis of different milk brands in Kalaburagi city	KVAFSU	0.30	2015	2017	Mr. Rajanna M
DE	Development of Pilot scale churner for preparation of Traditional Butter Milk	KVAFSU	0.60	2015	2016	Mr. Devaraju R

COLLEGE OF FISHERIES, MANGALURU

FPT	Application of irradiation for preventing post harvest losses in fish and fishery products	BRNS	24.51	2013-14	2016	Dr. B. Manjanaik
AEM	Determination of the Conservative Value of the Mangroves of Karnataka	NCSCM	10.50	2015	2016	Dr. H.R.V. Reddy

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

Biological Production division	All India Network Project on Blue Tongue Disease	ICAR	7.20	2001-02	Completed	Dr. S. M. Byregowda
Biological Production division	Strengthening of Biological prod. Division of IAH&VB for increased production of vaccines for total health coverage of livestock and poultry rural farmers.	Govt. of India, RKVY (Rashtriya Krishi Vikas Yojana)	1447.00	2009-10	Completed	Dr. S. M. Byregowda
Biological Production division	Development of vaccine and Diagnostic antigen for Mycoplasma infection in small Ruminants.	Govt. of India, RKVY	100.00	2011-12	Completed	Dr. S. M. Byregowda



Disease Investigation Division	Establishment of Disease Diagnostic Laboratories at Bagalkot (Bagalokot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist) Sirsi (Uttara Kannada Dist).	Govt. of India, RKVY	190.00	2012-13	Completed	Dr. P. Giridhar
INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU						
IWVR	Study of the various measures adopted by people in selected areas of Kodagu district to prevent entry of wild animals in human habitats	KVAFSU, Bdar.	0.30	2013	2015	Dr.Madhukar
IWVR	Studies on foot problems in Asian Elephants	KVAFSU, Bdar	0.25	2014	2015	Prof. H.A. Upendra.
IWVR	Retrospective Study of Mortality Pattern of Animals and Birds at Sri Chamarajendra Zoological Garden	ZAK	0.95	2014	2015	Prof. H.A. Upendra.
FISHERIES RESEARCH & INFORMATION CENTER, BELA, ANKOLA						
FRIC	Development and adoption of best management practices(BMP) of shrimp farming to maximize benefits to small stake holders for improved livelihood	VGST,Go K	5.00	2013-14	2015	Dr.Manjappa N
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI						
Animal Science	On farm trial on effect of feeding calf starter on performance of female calves	KVAFSU, Bidar	0.25	2014	2015	Dr. Chethan K.P.
Vety. Science	Study on the prevalence of hemo- protozoan diseases of bovines in Haveri district	KVAFSU, Bidar	0.20	2014	2015	Dr. Shivakumar K. Radder
ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI, TIPTUR						
AHPK	Studies on the effects of different iron supplements on hemoglobin concentration and growth rate in preweaning piglets	KVAFSU	0.10	2015-16	2015-16	Dr. Lathamani V.S Dr. Shivkumar. R



ABSTRACT OF COMPLETED RESEARCH PROJECTS

#	College /Institute	Research Projects	
		Total Nos.	Amount (Rs. Lakhs)
1	Veterinary College, Bengaluru	13	148.98
2	Veterinary College, Bidar	8	3.88
3	Veterinary College, Shivamogga	7	2.35
4	Veterinary College, Hassan	9	2.45
5	Dairy Science College, Bengaluru	3	20.66
5	Dairy Science College, Kalburgi	2	0.90
6	College of Fisheries, Mangaluru	2	35.01
7	Institute of Animal Health and Veterinary Biologicals, Bengaluru	4	1744.20
8	Institute of Wildlife Veterinary Research, Kodagu	3	1.50
9	Fisheries Research & Information Center, Bela (Ankola)	1	5.00
10	Animal Husbandry Polytechnic, Shiggaon, Haveri	2	0.45
11	Animal Husbandry Polytechnic, Konehalli, Tiptur	1	0.10
	Total	55	1965.48

b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: Molecular genetic studies on traits of economic importance in Mandya sheep and its variants

a. A study on genetic polymorphism of *dazl* gene in sheep:

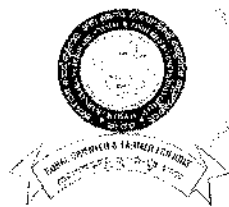
1. RFLP analysis of Ovine DAZL gene using *DdeI* was carried out. DAZL gene polymorphism comprising of three patterns, yielding alleles A and B with frequencies of 0.62 and 0.37, respectively and the frequencies of AA, AB and BB genotypes were 0.43, 0.38 and 0.18, respectively.
2. The sequence analysis revealed two novel SNPs with transitions *viz.*, C→T and T→G in Intron 3 of Ovine DAZL gene.

b. Association between *dazl* gene single nucleotide polymorphism and fertility traits in breeding rams:

- The present study demonstrated an SNP position specific, *Tail* RFLP pattern of Intron-6 in Mandya rams. The resultant DAZL gene SNP (A/G) locus in Intron-6 revealed no significant association with sperm quality traits in Mandya rams.

c. A study on *Ovar-drb1* gene polymorphism in mandya sheep:

1. No association between the polymorphic variants of *Ovar-DRB1* (exon-2) gene with birth weight or three months live body weight in Mandya ram lambs.
2. At six months of age, 'ab' genotype animals showed significant association with higher live body weight (15.00±0.87 kg) compared to other genotypes.



Title: MHC and Fecundity linked microsatellite analysis in goats in Karnataka.

The number of alleles ranged from 0 to 3 in all the ten loci indicates that these loci are fixed in the population without causing much variation. The mean observed heterozygosity was 0.4437 ± 0.2617 wherein more than 0.5 was revealed only in three (BF1, BMI1329, and TGLA68) of the ten loci indicating that these loci cannot be considered as polymorphic. Hence these microsatellite loci linked to MHC genes and Fec B gene cannot be used as markers of the local goats of Karnataka.

Title: Polymorphism of meat quality genes and their association with carcass traits in Mandya lambs.

The genetic variability in calpain and calpastatin loci was successfully determined by PCR-RFLP and PCR-SSCP, respectively in Mandya sheep.

1. Five SNPs in *CAST* intron and addition/insertion of one nucleotide 'A' in B allele of *CAPN* gene were identified.
2. High loin eye area was recorded, indicating higher muscular development in Mandya ram lambs.
3. The meat of Mandya ram lambs had almost equal proportion of unsaturated and saturated fatty acids and hence the meat may be considered as healthy in the diets of human being.
4. The meat of lambs genotyped as NN was more tender compared to lambs genotyped as MM and MN. Thus, the *CAST* gene has potential effect on meat tenderness and may be considered as genetic marker to improve meat tenderness in sheep, especially in Mandya sheep. However, further confirmation is warranted involving larger population size.

Title: A study on performance of rabbits with azolla feeding.

1. Azolla can be included at 3% level on DM Basis in the complete diets of broiler rabbits without any deleterious effects on the blood biochemical parameters.

Title: In vitro evaluation of complete diets based on Cactus (*Opuntia ficus indica*) for ruminant feeding.

- a) Spineless cactus (*Opuntia ficus indica*) contained 8.16 per cent dry matter. The protein and NDF (on per cent DM basis) were 4.51 and 25.6 respectively. In-vitro ruminal incubation gas production (RIVIGP) predicted ME content 8.1 MJ/kg. Eight complete diets based on paddy straw were formulated with inclusion of cactus as an energy supplement. Evaluation of diets by RIVIGP demonstrated that cactus could be included in the complete diet up to 40 per cent.

Title: Popularisation and Intensive cultivation of Medicago Sativa (Lucerne) for Sustainable dairy farming in Gowribidanur Taluk.

- a) Three villages in Gowribidanur taluk were selected. Sixty farmers were selected and were mobilised for cultivation of Lucerne.
- b) Training and awareness programmes were conducted on the Cultivation of Lucerne. On-farm demonstrations were conducted to demonstrate the effect of supplementation of wilted lucerne forage on milk yield in crossbred lactating cows at the rate of 5 kg/day/cow. The milk yield with feeding lucerne increased significantly ($P < 0.05$) by 32.5 per cent over the milk yield without feeding lucerne in the same cows.
- c) The results of the study indicated that intensive cultivation of *M. sativa* can be successfully adopted at the farm level except in water logged soil and quality green leguminous fodder can be supplemented to reduce the cost spent for concentrate feed purchase on grass based feeding diet.



Title: IEF study of LDH isozymes in colored birds.

- a) A significantly increased muscle crude fat, serum glutamate content and muscle glutamate content of pooled samples in native breed coupled with increased expression of HSP-70 indicates the probable reasons for the superiority of native bird with respect to its meat taste and resistance to stress.

Title: Studies on Ovine Theileriosis by using Polymerase Chain Reaction.

A total of 106 blood samples were collected from both ailing and apparently healthy animals belonging to the different districts of Karnataka state viz., Bengaluru Urban, Bengaluru Rural, Ballari, Chitradurga, Chikkabalapura, Kolar, Mandya, Ramanagar and Tumkur districts of Karnataka state. The examination of Giemsa stained blood smears revealed pleomorphic organisms viz., single pyriform, ringform, parachute, rods, semicolon and nail needle in 53 (50%) out of 106 blood smears.

The DNA extracted from blood samples was subjected to Polymerase Chain Reaction (PCR) by using *Theileria* spp. genus specific primers. Out of 106 samples, an expected 1098 bp fragment specific for *Theileria* genus was amplified in 103(97.16%) samples. No product was amplified from non template control. All the genus specific samples were later subjected to PCR by using primers specific for *Theileria ovis* and *T. lestoquardi* (*T. hirci*) which are commonly prevalent in India. But in none of the samples an expected fragment of 520 and 785 bp specific for *Theileria ovis* and *T. lestoquardi* was amplified respectively. Therefore, six genus specific PCR products were randomly selected and were sequenced. After BLAST analysis, the sequences were found to be closely related to *T. luwenshuni* isolates submitted in the GenBank. Further, the PCR was carried out by using primers specific for *T. luwenshuni* to get an amplicon product size of 389 bp. Out of 106 samples, an expected fragment of 389 bp was amplified in 103 (97.16%) samples.

The ticks collected from both ailing and apparently healthy animals were processed and identified as *Haemaphysalis kutchensis*(51.23%), *H. intermedia*(7.40%), *H. bispinosa*(6.17%), *Rhipicepalus sanguineus*(4.94%) and *R. haemophysaloides*(30.25%). The ticks belonging to the genus *Haemaphysalis* spp.(64.80%) was found predominant followed by *Rhipicepalus* spp. (35.19%).

To conclude, Ovine Theileriosis was found to be widely prevalent in southern districts of Karnataka state. *Theileria luwenshuni* was found to be more commonly prevalent species compared to *T. ovis* and *T. lestoquardi*. This is the first report on molecular diagnosis of *T. luwenshuni* in sheep by PCR from India. The ticks belonging to the genus *Haemaphysalis* spp. was found predominant which may be a probable vector in transmission of theileria organisms in sheep. But this needs further research work on transmission of theileria organisms in tick vectors for confirmation.

Title: Invitro efficacy of diatomaceous earth, citrus peel extract and neem oil on control of fleas in sheep.

Prevalence studies revealed presence of fleas *Ctenocephalides felis orientis* and *Ctenocephalides felis felis*. In the laboratory, the fleas were reared to obtain the developmental stages to conduct the trials. The invitro trails with the neem oil (Azaridhectin) showed 100% mortality of at 0.75% for 30 minutes in adult fleas. The in-vitro trials on adult fleas with citrus peel extracts (D-limonene) showed 100% mortality with in 2min at 5% concentration.

The bedding containing the eggs and larvae were mixed with Diatomaceous earth 15mg/100 sq cm caused 100% mortality of larvae and hatchability of eggs were reduced to 20% in compare to 90% egg hatchability in control group.



Title: Evaluation of cold plasma in management of wound.

Cold Plasma alone did not have any beneficial effects on Wound healing in dogs in combination with antibacterial / antibiotics it enhanced the rate of wound healing.

Title: Effect of supplementation of processed vegetable market waste on growth performance of chicken.

1. Vegetable market waste was supplemented at the levels 5%, 10%, 15% and 20% to chicken diets to study the performance in terms of body weight gain, feed intake, FCR, immune status, serum biochemistry, carcass traits, meat quality and feed cost economics. Supplementation of vegetable market waste up to 20% in the diet produced the same body weight with similar FCR as compared to the unsupplemented control group.
2. Similarly, the antibody titres against IBDV and NDV, carcass yield, organ weights, serum levels of liver enzymes (SGOT, SGPT), cholesterol, total protein, albumin and globulin were not different in any of the treated groups as compared to the control. The protein and fat content of breast meat was similar in all groups, while, the thigh meat protein content reduced and fat content increased at higher levels of inclusion of vegetable market waste. Also, the feed cost per Kg body weight produced significantly reduced with 10%, 15% and 20% levels of vegetable market waste.

VETERINARY COLLEGE, BIDAR

Title: Parthenogenetic Activation of Buffalo Oocytes: Effect of Different Activation Protocols

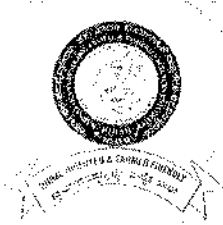
Total of 692 ovaries were collected and recovered 565 colourable oocytes by aspiration method at the rate of 81.64%. After 24h of maturation in TCM-199 media supplemented with hormones and sera a total of 482 (85.30%) oocytes were considered as matured based on expansion of cumulus cells. These activated oocytes were utilized for parthenogenetic activation by different protocols.

Eight (8) activation protocols were tested by using 7%, 5%, and 3% of ethanol for 5min and 7min. Different concentrations of ionomycin i.e 5uM and 10uM for 5 min. Then the activated oocytes were cultured in 2uM of 6-DMAP for 4hr. Then cleavage rate were noted at 48 and 120h of culture in mSOF.

Among all the activation protocols it was found that protocol-4 (5% ethanol activation for 7min) best method for parthenogenetic activation of invitro matured buffalo oocytes at 12.50 and 18.75% cleavage rate at 48 and 120h of culture. Protocol -7 (5uM ionomycin activation for 5min) was also found to be next better option for activation after protocol-4 at the rate of 08.95 and 14.42% at 48 and 120h of culture in mSOF.

Title: Detection of Adulterants in Market Milk of Bidar District

About 230 milk samples collected from Bidar district have been analysed. 14 samples were found to be positive for salt adulteration. 35 samples were found to be positive for carbonates, 8 samples found to be positive for urea, 60 samples were found to be positive for detergents. 06 samples found to be positive for formalin and 05 samples were found to be positive for coal tar adulteration.



Title: Evaluation of Druggability Targets of Salmonella Sps. In Broilers

Compared the Proteins of *Salmonella gallinarium* vs, Identified potential Targets along with drugs that can act on those targets. Insilico and invitro studies were done.

Total proteome of pathogen V/s host comparison using comparative genomics was done

- Non-homologous proteins of the pathogen screening and drug target identification
- Total non homologous proteins found: 1068
- Total Protein Data Base structures identified: 123 (100% matching)
- Total drug targets found based on PDB : 1520
- Total drug targets found based on PDB : 14 (100% matching)
- Microbial serial dilution study, Culture isolation, identification and media Preparation and the susceptibility to various antibacterial agents was done

Title: Assessment for Insect Repellent Property of Herbs Against *Culicoides* Midges

1. Seasonal distribution of *Culicoides* midges were found to be highest in the southwest monsoon (62%) followed by post southwest monsoon (32%), pre monsoon (4%) and winter (2%).
2. There was significantly positive correlation of abundances of *Culicoides* midges with mean Minimum temperature, total rainfall and relative humidity and significant negative correlation with mean maximum temperature and wind speed.
3. Among the plant extracts, Sunflower acetone extract 0.5% conc. Shows 46% efficacy followed by *Lantana camara* acetone extract 0.25% conc.(44%) and Marigold acetone extract 0.25% conc.(38%), were found to be effective in order to reduce the feeding preference of *Culicoides* midges on sheep and may help to control *Culicoides* borne disease in sheep.

Title: Development of cost effective and field applicable fracture fixation techniques in cattle and buffaloes

Fibre glass cast application proved most effective method of treating both simple and compound fractures of long bones in cattle when compared to external application using plaster or external skeletal fixation. All the cases with simple or compound metacarpal and metatarsal fractures improved. Over 70 % of the cattle with tibial fractures improved with fibre glass cast technique.

Title: Effect of GnRH administration on day 15 th on postpartum fertility Kenguri Sheep

The objective was to compare the feed supplementation and GnRH on fertility in Kenguri sheeps and there were three groups of ewes.

Group 1. Animals were fed 400 gm of concentrate feed for 60 days post partum and Inj. Busereline acetate 8.4 mcg im was given on the day 15th post parturition. There was no estrus observed near by the inj. Busereline acetate, but the postpartum Estrus was observed after the treatment. Animals in this group showed estrus 144 ± 12 days post partum. Minimum period was 76 days and maximum 193 days).

Group 2. In this group 10 ewes were used for feeding concentrate 400 gms daily for 60 days post partum. During the feeding there was no estrus found in these animals, but animals from this group were shown estrus 176 ± 12 days post lambing. Minimum period was 110 days and maximum was 224 days.



Group 3. In this group animals were kept without treatment and feeding. 10 animals were observed for estrus. In this group animals shown estrus 269 ± 10 days post lambing.

There is no significant difference between the group 1 and 2, but there is significant difference between the group 1 and 3, and the group 2 and 3 at ($p < 0.05$).

Conclusion: Concentrate feed supplementation and hormone Inj Buserefin acetate with concentrate feed supplementation has got beneficial effect on reducing the postpartum period in post partum Kenguri ewes.

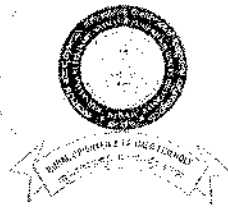
VETERINARY COLLEGE, SHIVAMOGGA

Title: Survey of management and breeding strategies adopted by Malnad Gidda Cattle Rearing farmers in Shivamogga District

- The Malnad Gidda cattle account for more than 70 % of the cattle population in the district.
- The majority farmers owning the animals are small farmers with an average land holding of 1.5 to 2.0 acres, dry land in most cases.
- The animals are mainly reared for cattle manure. However, milk production of 1.5 to 2.0 kg per day is obtained which is mainly fed to calves. Few animals with production of 3- 4 kg is also recorded.
- Males are used for agricultural operations at some places.
- The animals are housed mostly in open kutchha houses in a separate area and has kutchha floor, half walled however regular cleaning is practiced.
- Grazing is the main source of feeding in majority cases from morning to evening and covering a distance of about 3- 4 km. Some farmers practice supplementary feeding of dry fodder and concentrate.
- Breeding is by natural service during grazing. Some farmers avail AI facility with semen of other indigenous breeds.
- The animals are free from many diseases

Title: Analysis of PK-PD properties of veterinary antimicrobials with reference to current MIC values against common pathogens

1. Antimicrobials chosen for the study: Gentamicin, Ceftriaxone, Cefoperazone, Ampicillin, Oxytetracycline and Enrofloxacin
2. As MIC of antimicrobials against microbial pathogens varies with time and region, common bacterial pathogens *Escherichia coli*, *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Streptococcus agalactiae* species isolated from clinical cases of mastitis (cows) presented to Veterinary College hospital, Shivamogga were chosen against which minimum inhibitory concentrations of above said antimicrobials were determined according to standard protocol (Mackie and McCartney Practical Medical Microbiology; 2007 & OIE Terrestrial Manual, 2012).
3. Minimum inhibitory concentrations (MICs) of above said antimicrobials against chosen bacterial pathogens determined in the present study were correlated with the archived pharmacokinetic parameters like peak plasma concentration (C_{max}) and area under the curve (AUC) of respective antimicrobials to determine their suitability against specific pathogens causing mastitis in cows.



Conclusion:

Based on PK-PD integration of the data obtained in the present study, it is concluded that gentamicin is effective against *Pseudomonas aeruginosa* and *Staphylococcus aureus*; ceftriaxone against *Escherichia coli*; cefoperazone against *Staphylococcus aureus* and *Streptococcus agalactiae*; oxytetracycline against *Streptococcus agalactiae* and enrofloxacin against *Escherichia coli* isolates from milk of cows suffering from mastitis.

Thus PK-PD integration at regular intervals helps to select appropriate antimicrobial agent (with modified dosage schedule if required) in therapeutics.

Title: Pharmacokinetic and tissue residue analysis of enrofloxacin/ ciprofloxacin in poultry (broiler) with special reference to PK-PD interpretation against common pathogens.

The disposition kinetics of enrofloxacin in broiler chickens (Vencob®) following per os or intravenous administration (10 mg.kg⁻¹) is best described by two-compartment open model. The plasma elimination half-life ($t_{1/2\beta}$) and mean residence time (MRT) of enrofloxacin following per os administration is found to be 6.31±0.60 and 3.72 ±0.25 hours respectively. PK-PD integration of the PK-data with the MIC values (C_{max}/MIC and AUC (0-24)/MIC) against local isolates (*E. coli*, 0119 & *S. typhimurium*) showed that enrofloxacin is moderately effective against these pathogens infecting poultry. However, enrofloxacin with the current dosage schedule is ineffective against the pathogens against which the MIC of enrofloxacin: >0.25µg.ml⁻¹. The residues of enrofloxacin or ciprofloxacin persisted up to 72 hrs in breast muscles while the ciprofloxacin residues in liver and kidney persisted up to 96 hrs. Thus, it is suggested restrict/withdrawal the medication enrofloxacin at least four days before slaughter/marketing of broiler chicken.

Title: Study on Self Help Groups (SHGs) and their Income Generation Activities in Shivamogga District and Identification of Constraints with respect to livestock Production activities

- Majority (66%) of SHG members selected livestock based IGA, of which 55 per cent selected Dairy activity and 8 per cent Small ruminants rearing.
- Major constraints - Lack of availability of improved breeds, less loan amount and organised marketing network

Title: Epidemiological investigation of schistosomosis in cattle and buffaloes

- i. During April- June period prevalence is high
- ii. No major variation in hematological values noticed
- iii. Infested animals treated with different drugs and no single drug or combination drugs cured the disease cent percent.
- iv. Two clinical cases still not yet cured with all the above mentioned drugs including praziquantel@20 mg/kg bwt
- v. All Pregnant animals infested with schistosoma shown abdominal type of respiration and open mouth breathing
- vi. Old non descript drought and pregnant animals were more affected than heifer and lactating animals is based on clinical signs and the detection of eggs in nasal scrapings

Title: Studies on prevalence of GI parasites of wild animals of Shivamogga region

The study was conducted to observe the prevalence of endo-parasites in wild carnivores maintained under captive state at Tyavarekoppa Tiger and Lion Safari unit near to Veterinary College, Shivamogga. A total of 54 wild carnivores were included in the study and the fresh fecal samples were



collected, examined on the same day by direct and sedimentation techniques for endo-parasitic eggs/ova in the laboratory. Out of 15 tigers samples screened, 12 were harboring mixed infections of *Strongyle* spp., *Toxocara* spp., oocysts of coccidia and *Spirometra* spp. ova/eggs. Among 21 leopards sample screened, only 11 faecal samples showed eggs of *Toxocara* spp. and three showed eggs/ova of *spirometra* spp. Of the 12 lion faecal samples examined, only 3 harbored eggs *Toxocara* spp. and two showed mixed infections of *Strongyle* spp., *Toxocara* spp., oocysts of coccidia. Among six Jackals screened, three faecal samples found positive for *Strongyle* spp. and *Toxocara* spp. eggs/ova.

The faecal sample of 2 jackals, 1 Hyaena and 9 wild herbivorous includes 3 spotted deer, 3 Black buck and 3 sambar deer were screened to find the actual prevalence of gastrointestinal parasites maintained under captivity at tiger and lion safari, Tyavarekoppa near Veterinary College, Shivamogga by direct, sedimentation and flotation methods. Two jackals and one Hyaena were found positive for eggs of *Toxocara* spp. whereas the faecal sample of porcupine showed eggs of *Trichuris* and *Ascaris*. Among 9 wild herbivorous (3 spotted deer, 3 Black buck and 3 sambar deer) animals screened, one spotted deer was found positive for Eimerian oocysts and 2 were positive for *Strongyle* eggs. All the three black bucks were positive for *Strongyle* eggs and out 3 Sambar deer, one harboured both *Strongyle* eggs and Eimerian oocysts and other two were positive for *strongyle* eggs.

A total of 24 elephants faecal samples from Sakkarebailu elephants camp were screened for gastrointestinal parasites by direct, sedimentation and flotation methods and found 6 positive for Amphistome eggs, 3 had *Strongyle* eggs and 5 found positive for both Amphistome and *Strongyle* eggs.

Title: Effect of feeding lignocellulose on performance of Broilers

- Commercial broilers were evaluated for performance parameters on weekly basis.
- Lignocellulose fed group performance were found to be satisfactory.

VETERINARY COLLEGE, HASSAN

Title: An abattoir survey of gastrointestinal and tissue parasites of pigs in Hassan

The work was carried out between June, 2015 to February, 2016 in Hassan. From the 50 gastrointestinal tracts collected 10, 8, 2 animals were positive for *Ascaris suum*, stomach worms (all the eight animals harboured *Ascarops strongylina* and *Physocephalus sexalatus* worms) and *Trichuris suis* respectively. Three animals had mixed infection with *Ascaris suum* and *Physocephalus sexalatus* worms. One animal was found to have a tapeworm, which was identified as *Hymenolepis* spp. based on the morphological characters. Out of 300 slaughtered pigs only three were found to be positive for *Cysticercus cellulosae* and none of the animals were positive for any other tissue parasites. Out of the 100 faecal samples screened from different unorganized pig farms 62 animals were positive for parasitic eggs, oocysts and cysts. Out of the 62 positive animals, ten had *Ascaris suum* eggs, six had *Trichuris suis* eggs, six had *Hymenolepis* spp. eggs, 10 had *Strongyle* eggs, four had *Eimeria* oocysts, four had *Balantidium coli* cysts and six had mixed infection with *Ascaris suum* and *Trichuris suis* eggs.

Title: Study on Cryptosporidiosis in Ruminants and pigs in Hassan

A total of 156 ruminant and 22 pig faecal samples were screened for *Cryptosporidium* oocysts.



Out of 156 ruminant faecal samples, 92 were from cattle, nine from buffaloes, 35 from sheep and 20 from goat. Among the samples screened 12 samples from cattle and one from goat were positive. The samples were screened by Saturated sucrose floatation method and different staining techniques viz., modified Ziehl Neelsen's staining technique, Kinyoun's acid fast staining, Saffranin methylene blue and Malachite green staining technique. The samples were examined under phase contrast microscope. Sheather's Sugar floatation method and modified ZiehlNeelsen staining technique gave better results. Phase contrast microscopy was specific and inexpensive method. In the present study only *Cryptosporidium andersoni* was found and it is adapted only to cattle and sheep. The above mentioned species has no public health significance.

Title: Ultrasonography in the diagnosis of Gastro intestinal (GIT) disorders in ruminants

Ultrasonography is reliable and safe technique in diagnosis of gastrointestinal disorder like esophageal obstruction, motility of reticulum, reticular abscess, reticular adhesion, peritonitis, diaphragmatic hernia and confirmation of ventral hernia were made.

Title: Study on physico-chemical characters of rumen fluid of cross bred cattle from rural and suburban areas of Hassan

When physico- chemical properties of ruminal fluid was studied, it was found that, there is not much difference between urban and rural areas except for slight variation in pH. pH of ruminal fluid collected from urban areas was found to be in the range of 6.3-7.2, whereas pH of rural areas was found to be 6.4-7.0. It was also found that, animals which were given kitchen waste along with fodder found to be slightly on acidic side (6.51 ± 0.2 & 6.71 ± 0.172) compared to animals given concentrates along with fodder (6.9 ± 0.12 & 6.87 ± 0.18) in both urban and rural areas respectively. While interacting with the animal owners it was found that kitchen waste feeding practice is more seen in urban areas compared to rural areas. From microscopic examination of ruminal fluid it was found that protozoa were present in large number (>30/ low power field), active motile, predominantly of ciliates than flagellates in both urban and rural areas. pH has little or no effect on the microfloral activity in the range of 6.2-7.2. pH meter reading was found to be a reliable indicator than using pH paper. On Gram's staining, ruminal fluid had more of gram negative bacteria than gram positive bacteria in the pH range of 6.2 - 7.2.

Title: Studies on etiological aspect and surgical management hoof lesions in dairy cattle in and around Hassan District

Seventy cases of hoof lesions in dairy cattle of Malnad areas of Hassan district were analyzed during the study. Heel lesions were more predominant in these areas (35) followed by inter-digital lesions (20) and toe lesions (5). Hoof lesions were more common in well fed cattle particularly after first calving. The breed wise incidence of hoof affections revealed that the lesions were more common in HF cross bred cattle (43) followed by Jersey cross bred (18) & other breeds (9). The hoof affections were more



predominant in cattle aged > 5 years (36 cases) and 2-5 year old cattle (29 cases). Among the various predisposing causes, the slippery floors, bad hoof management at calving, bad confirmation of the hooves, excess moisture in the cattle sheds and hilly terrains of Malnad region were more common. Long hoofed animals were more susceptible for hoof affections. Sole lesions appeared to be more critical compared to other cases. In most instances the heel lesions were identified as early phase of hoof affections. White line disease was less common (3 cases) but appeared to be grave compared to the other lesions. Pigeon toe was observed in less exercised and confined animals. Various lines of treatment were tried including the surgical correction. Contralateral shoeing in heel affections and X-B-K standing stun were effectively tried in most cases.

Title: Studies on bovine papilloma in Malnad area and its surgical management

Studied the effect of interventions like Surgical excision, thermocautery and cryosurgery for management of papillomatous lesions in bovines. Lesions (15) needed surgical excision and (24) lesions were removed by thermocautery. (23) Lesions were subjected to cryosurgery. All the methods were effective in correcting the condition of wart. Cryosurgery helped in prevention of the recurrence of the warts. The crossbred cattle were more (26) affected than the local breed (2), females (28) were more affected than the males (0) in the study due to lack of male adult crossbred animals in the area during the period of study. All the animals from greater than two years were affected with papilloma in Malnad area. The histopathology of lesion revealed cutaneous involvement.

Title: A study on morphological and carcass traits of Hassan breed of sheep

Body weights and body biometry were recorded on 45 adult males and 185 adult females

- The flocks were medium sized and the average flock size was 32 comprising 3 adult males, 25 adult females and 10 young ones
- The flocks covered a distance of 5-6 km in a day for grazing, About 90% of the flocks were stationary
- The main lambing season in this breed was from September to November
- The lambing rate was about 64% with an average lambing interval of about 15 months
- Litter size was usually single
- The major source of income was from the sale of male lambs, the male lambs of 9-12 months of age are sold in a weekly market for Rs.6000 each
- The identified male lambs between the age of 9-12 months were slaughtered in a scientific manner and all the carcass traits were estimated (six animals)
- The average live weight at nine months was 19.52 ± 1.72 kgs (6)
- Average hot carcass weight was 8.95 ± 0.33 kgs
- Average edible offals were 1.97 ± 0.13 kgs
- Dressing % was 55.94
- Meat to Bone ratio was 2.42

Title: Alternative therapeutic management of mange infestation in pigs

The incidence of mange infestations in pigs was more and could spread easily between pigs. Ivermectin was found to be effective for mange infestation in pigs. Neem leaves application was also



found to be effective but not completely eliminated the mange (60%). Garlic paste was not so much efficacious for mange infestation in pigs (30%).

Title: Establishment of data on hindgut fermentation kinetics of pig diets using *in-vitro* gas production technique

The gas production in plant based source of ingredients such as wheat, rice, potato, Soyabean, groundnut cake, maize were more compared to animal source such as fishmeal, bonemeal. The *in vitro* digestibility of vegetarian kitchen was less than non vegetarian kitchen waste and *in vitro* fermentability was higher in vegetarian kitchen than non vegetarian kitchen waste. The *in-vitro* gas production unit consisting of *in vitro* digestion and fermentation unit were established, which can be utilised in future for further studies on this aspect.

DAIRY SCIENCE COLLEGE, BENGALURU

Title: Development of Health Food for Enhancement of Immunity in Geriatrics

Geriatric Health Food has been successfully developed with the incorporation of whey protein isolate, lactoferrin, Pro-biotics and bacteriocins, Clinical trials are to be taken with the due approval of the Ethical Committee clearance.

Title: Utilization of Whey for the Production of oral Rehydration

Paneer Whey collected and was analyzed for gross chemical composition. Hydrolysis of lactose in whey was standardized by using lactase enzyme for temperature, pH and enzyme concentrations.. The degree of hydrolysis of lactose estimated by was estimated by glucose content in whey. Lactose hydrolysed whey was utilized for formulation of oral re-hydration solution and was comparable to commercial oral rehydration solution.

Title: To study the inter-sectoral linkage in urban fringe agriculture – a case study of Melekote village, Bengaluru Rural

- Agriculture and livestock had a strong growth linkage with the economy
- Employment was a strong determinant of growth and due to its decline growth of the economy was being impaired.

COLLEGE OF FISHERIES, MANGALURU

Title : Application of irradiation for preventing post harvest losses in fish and fishery products

1. The irradiation dose required to reduce 90% of original population of a bacteria (D_{10} - value) in shrimp meat were determined for different bacterial pathogens such as *Staphylococcus aureus* (0.24 kGy), *S. Typhumurium* (0.46 kGy), *E. coli* (0.24 kGy).
2. Combined effect of gamma irradiation and freezing on the microbial and bio- chemical quality of cat fish (*Pangasius hypophthalmus*) and white leg shrimp (*Litopenaeus vannamei*) was evaluated



- The combination of low dose gamma irradiation and refrigerated or frozen storage resulted in a significant reduction of microbial load.
- The employed irradiation dose (1, 3 and 5 kGy) in combination with frozen storage extended the shelf-life of shrimp to about 90 days.
- The irradiation dose (1, 3 & 5 kGy) in conjunction with frozen and refrigerated storage extended the shelf-life of fish to 90 and 21 days respectively.
- Irradiated samples of shrimp and fish had significantly lower concentrations of TVB-N and TMA-N during their refrigerated storage ($p < 0.05$) as compared with the controls, which may be attributed to the reduction of microbial population.

Title : Determination of the Conservative Value of the Mangroves of Karnataka

Estuary wise Mangrove area (ha)

ESTUARINE COMPLEX	EXTENT OF MANGROVES
Gurpur-Netravathi	22.5
Mulki-Pavanje	125
Sita-Swarna-Kodi-Udyavara	77.5
Chakra-Haladi-Kollur	312.5
Shiroor-Baindoor Hole	80
Venkatapur	17.5
Aghnashni-Sharavathi	85
Belekeritadri-Gangavalli	57.5
Kali	37.5
Total	815

Mangrove Species Recorded

True mangroves	Mangrove associates
1. <i>Avicennia alba</i>	1. <i>Derris trifoliata</i>
2. <i>Avicennia marina</i>	2. <i>Derris scandens</i>
3. <i>Avicennia officinalis</i>	3. <i>Premnaserratifolia</i>
4. <i>Rhizophora apiculata</i>	4. <i>Cerebra odollam</i>
5. <i>Rhizophora mucronata</i>	5. <i>Thespesia populnea</i>
6. <i>Sonneratia alba</i>	6. <i>Ipomoea</i> sp.
7. <i>Sonneratia caseolaris</i>	7. <i>Pandanus fascicularis</i>
8. <i>Bruguiera gymnorhiza</i>	8. <i>Mariscus javanicus</i>
9. <i>Bruguiera cylindrica</i>	9. <i>Acrostichum aureum</i>
10. <i>Kandelia candel</i>	10. <i>Clerodendrum inerme</i>
11. <i>Aegicerascorniculatum</i>	11. <i>Mimosa pudica</i>
12. <i>Excocaria agallocha</i>	12. <i>Cyperus malaccensis</i>
13. <i>Acanthus ilicifolius</i>	13. <i>Sesuvium portulacastrum</i>
14. <i>Lumnitzera racemosa</i>	



INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

Title: All India Network Project on Blue Tongue Disease

Objectives:

- A. Isolation of virus in cell culture from blood samples from field outbreaks.
- B. Identification of virus by using PCR.
- C. Design of specific primers for BTV isolates.
- D. Validation of primers for their specificity.
- E. Real time PCR for rapid diagnosis.

Progress made so far:

- A. For virus detection 954 samples were screened by RT-PCR and Real-time-PCR, out of these 293 were found positive and 661 samples were found to be Negative.
- B. For virus isolation 47 samples passaged in chick embryos 35 were indicative and were preserved for further passaging in BHK21 cells.
- C. Real time (Sybergreen assay) PCR primers for NS1 gene of Bluetongue virus F-ACGAGAGGGCTTATGCTACG and R-GCGAAGTGAACCTTTTCTGC (Product size of 79 bp) were designed.

Title: Strengthening of Biological production division of IAH&VB for increased production of vaccines for total health coverage of livestock and poultry rural farmers.

Objectives:

The strengthening of the Biologicals production division involves:

- a. Up gradation of one of the lab as per GMP norms to enable vaccine production in clean rooms
- b. Purchase of newer equipment to produce vaccines in bulk and cost effective vaccines
- c. Automation in vaccine preparation activities to minimize the human interference as per GMP and to enable large scale of production.

Progress made so far:

- a. The infrastructure creation part for augmenting the vaccine production has been completed. Equipments required for automation and scaling of production have been installed and most them are under use.
- b. Only a few of them are not being commissioned for want of lab modification. The production with respect to both viral and bacterial has been enhanced to meet the demand.

1. Project outcome:

- a) The infrastructure required for the augmenting vaccine production has been created and it is an asset to the Institute to plan for the production of vaccines as per the needs of the farming community.



b) Already the 100% vaccination programmes for ET and PPR has resulted in almost minimal outbreaks due to increased supply and vaccinations.

a) **Achievement of objectives:** Achieved.

Title: Development of vaccine and Diagnostic antigen for Mycoplasma infection in small Ruminants

Objectives:

1. To study the current status of Contagious agalactia and vaccine Production
2. To evaluate the vaccine under controlled condition.
3. To evaluate the vaccine under field condition.
4. Production of *Mycoplasma agalactia* diagnostic antigen.
5. To evaluate the efficacy of diagnostic antigen produced.
6. To study the outcome of the vaccine and diagnostic antigen produced.

Progress made so far:

- a) Modification of lab
- b) Procurement of equipments
- c) Isolation and standardization of diagnostic antigen and development of vaccine for small ruminants
- d) Contractual labor for the research work, filed trials, sample collection etc

1. Achievement of objectives:

- a) Modification of lab work is under progress.
- b) Equipments have been procured.
- c) Ten isolates of *M. argenini* type were obtained from sheep.
- d) Diagnostic antigen has been developed and is being validated by different laboratories

Title: Establishment of Disease Diagnostic Laboratories at Bagalkot (Bagalokot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist) Sirsi (Uttara Kannada Dist)

Objectives:

1. Establishment of Disease Diagnostic Laboratories at Bagalkot (Bagalokot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist) Sirsi (Uttara Kannada Dist).
2. Procuring equipments for Diagnostic laboratories.
3. The diagnostic laboratories will cater to the requirements of farming community through Animal Husbandry and Veterinary services department in identifying and diagnosing disease problems in livestock and poultry. In addition vaccines are also stored in these laboratories and supplied to department of Animal Husbandry and Veterinary services, Government of Karnataka for taking up vaccinations in livestock and poultry. This will help in improving overall economic conditions of the farmers.

Progress made so far:

1. The Laboratories have started functioning
2. The Construction of new laboratory building is started at Kolar and Sira



INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

Title: Study of the various measures adopted by people in selected areas of Kodagu district to prevent entry of wild animals in human habitats

- Human-Wildlife conflict was found to be more common in Somavarpeta and Virajpet taluk and was relatively lower in Madikeri taluk
- The common measures adopted by farmers were found to be vigilance during night, use of fire crackers, burning fire during night, solar fencing, use of air guns, making noise and using traps.
- Overall farmers feel that both animals as well as humans are responsible for the conflict. While most felt that their current methods were effective, they are not sure whether these will help in future.

Title: Studies on foot problems in Asian Elephants

- The prevalence of Foot problems in captive Asian elephant was found to be 50% with highest prevalence more in male elephants (59.64%).
- Foot problems increased with age and all elephants aged more than 60 years had foot problems (100%). Least prevalence was noticed in elephants aged less than 20 yrs (32.35%)
- Hind limbs (63.15%) were more involved with foot problems as compared to fore limbs.
- Abscess (24%) and chain inflicted injuries (24%) were found to be most common major foot problems in Asian elephants.
- Split nails and excessive cuticular growth were found to be most common minor foot problems.
- Bacteria isolated from foot lesions included Staphylococcus, Bacillus, E.coli, Streptococcus Pseudomonas, Proteus, Klebsiella, Enterobacter and Salmonella Spp
- Gentamicin (72%), Amikacin (70%) and Ciprofloxacin (70%) were found to be antibacterial of choice.
- Least sensitivity was noticed for Neomycin, Penicillin and Oxytetracycline

Title: Retrospective Study of Mortality Pattern of Animals and Birds at Sri Chamarajendra Zoological Garden

A total of 442 post-mortem reports were retrieved for the study duration. Of these 3% were omnivores, 6% were reptiles, 6% were primates, 10% were carnivores, 34% were birds and 41% were herbivores

- Analysis of records of 144 post mortem reports of captive wild animals and birds of Sri Chamarajendra Zoological Garden, it was found that Trauma was responsible for almost 1/3rd of all the deaths. Implementation of better managemental practices that can reduce traumatic injuries.
- As gastrointestinal disorders were next highest cause of mortality, nutrition should be improved and infections and other deleterious conditions can be controlled.
- Almost 1/3rd of the total deaths occurred in monsoons. Herbivores and reptiles's showed highest death rate in this season
- During post monsoon season Primates, carnivores and omnivores showed higher death rates.
- Birds showed higher death rates during summers.



CANINE RESEARCH & INFORMATION CENTER, TIMMAPUR, BAGALKOT

Title: Phenotypic characterization of both male and female dogs of Mudhol Hound breed

Table 1. Mean \pm S.E. (cm) of body measurements of adult Mudhol Hound dogs.

	Morphometric variable	Adult male Mudhol Hound Dog (n= 50)	Adult female Mudhol Hound Dog (n= 50)
01	Body Length	92.90 \pm 0.70 **	85.70 \pm 0.64 **
02	Head Length	27.13 \pm 0.26	25.88 \pm 0.20
03	Muzzle Length	15.90 \pm 1.04	12.61 \pm 0.13
04	Tail Length	57.85 \pm 0.81	50.60 \pm 0.60
05	Height at withers	76.62 \pm 0.49 **	69.56 \pm 0.49 **
06	Height at Rump	76.07 \pm 0.37	69.80 \pm 0.45
07	Chest Girth	72.93 \pm 0.67 **	66.56 \pm 0.56 **
08	Belly Girth	44.45 \pm 0.63	41.70 \pm 0.56
09	Ear Length	14.32 \pm 0.17	12.87 \pm 0.17
10	Ear width	8.88 \pm 0.12	8.29 \pm 0.12
11	Neck Length	25.47 \pm 0.37	23.60 \pm 0.32
12	Eye Colour	Brown	Brown
13	Coat Colour	White/ fawn/ brindle/ patchy	White/ fawn/ brindle/ patchy

** Sex had highly significant effect ($P < 0.05$) on body length, chest girth and height at withers.

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

Title: On farm trial on effect of feeding calf starter on performance of female calves

Calves fed with calf starter had better body weight gain during first 3 months compared to treatment group. Response to treatment was better in buffalo calves compared to cattle calves. Farmers in treatment group acquired knowledge about feeding calf starter while all farmers in control group didn't know about it. However, farmers' knowledge was limited to knowing that calf starter is a special formula for better growth of calves. Also buffalo calf owners perceived that feeding calf started prevented calf mortality which use to be very common before. Many of the farmers expressed their willingness to adopt feeding calf starter, if it is made available locally.

Title: Study on the prevalence of hemo-protozoan diseases of bovines in Haveri district

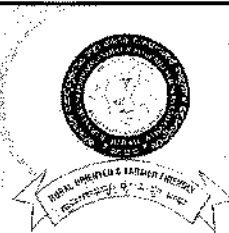
Main hemoprotozoan diseases observed in the area were anaplasmosis, babesiosis and theileriosis. Among these, theileriosis was major disease. Prevalence was highest in crossbred cattle, followed by indigenous cattle. None of the buffaloes were found positive for any of the hemoprotozoan diseases. Incidence was highest in the age group of 2 to 5 years followed by more than 5 years. The observations are in concurrence with the general literature suggesting susceptibility of crossbred animals to hemoprotozoan diseases.



2) Ongoing Projects

a) Research Details

Depts.	Title	Funding Agency	Budget (in lakhs)	Yr. of Comt.	Principal Investigator
VETERINARY COLLEGE, BENGALURU					
AGB	Development of new meat type crossbred sheep with exotic Dorper breed.	RKVY	145.00	2014-15	Dr. M. R. Jayashankar
VAN	Flash based innovative technique as an aid in teaching Veterinary Anatomy	VGST	30.00	2011	Dr. K.V. Jamuna
VAN	Morphological studies on fore and hind limb bones of Sloth Bear (<i>Melursus ursinus</i>).	KVAFSU	0.50	2015	Dr. K.V. Jamuna
VAN	Infrastructure development, FIST	DST, GoI	55.00	2014	Dr. R.V.Prasad
LPT	Promoting Health, Livelihood and Sustainable Livestock Systems; India Research Initiative on Peri-Urban Human-Animal-Environment Interface.	PHFI	32.82	2015	Dr. Mohamed Nadeem Fairoze
VAHE	Study on development & effectiveness of mobile application on fodder production in Karnataka.	KVAFSU	0.50	2015	Dr. K. Satyanarayan
VAHE	Develop and Evaluate Use of Mobile application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production	ICAR	9.20	2016	Dr. K. Satyanarayan
VBC	FIST, DST, GoI	DST, New Delhi	55.00	2015	Dr. V. Girish Kumar
VBC	Physio-biochemical and reproductive parameters in captive tigers	ZAK, Bengaluru	1.50	2016	Dr. V. Girish Kumar
VMD	Comparison of Different methods for Diagnosis of Giardiasis in Dogs in Bengaluru	KVAFSU	0.20	2015	Dr. Santosh P Sarangamath
VPE	Project on Diagnosis of Rabies and Anthrax in Animals: Outreach Programme on Zoonotic diseases	ICAR	73.08	2012	Dr. Lecna, G.



VPP	Innovative tests for the diagnosis of Animal diseases	ICAR	592.00	2012	Dr. H. D. Narayanaswamy
VPP	Efficacy of Diatomaceous Earth in mycotoxicosis	Agripower	10.20	2013	Dr. H. D. Narayanaswamy
VPT	Anti-cancerous and safety study of <i>Bridelia retusa</i> in rats	NM Academy	3.43	2012-13	Dr. N.B. Shridhar
VPT	Evaluation of anti-diabetic property of few breeds of cow urine in rats	Dharmachakra Trust	5.73	2012-13	Dr. N.B. Shridhar
VPT	Pharmacokinetics, bio distribution and efficacy studies of enrofloxacin (Enrocin®) and Bayrocin® in broiler chicken".	Zoetis, Mumbai	4.01	2013-14	Dr. Jagadeesj S. Sanganal
VPT	Induction of lactation in unproductive animals	GoK	85.00	2015-16	Dr. N.B. Shridhar
VPT	Validation of ethnoveterinary practices in the management of common ailments of livestock	GoK	60.00	2015-16	Dr. N.B. Shridhar
VPY	Acute Phase Proteins (APPs) as biomarkers for early detection of mastitis in Cattle	KVAFSU	0.50	2015	Dr. G. P. Kalmath
PSc	Strengthening of poultry farm at Poultry Science Department, Veterinary College, KVAFSU, Hebbal, Bengaluru for empowerment of rural youth and rural women	GoI	83.70	2013	Dr. K. Venkata Reddy
PSc	Automation of Giriraja breeder house	RKVY	200.00	2013	Dr. K. Venkata Reddy
PSc	Evaluation of Spore forming bacterial probiotic on Growth performance, immunity and gut health in broilers	Zeus Biotech ltd. Mysore	1.37	2015	Dr. Malathi, V.
TVCC	Effect of post insemination progesterone supplementation on fertility rates of repeat breeding crossbred cows	KVAFSU	0.03	2016	Dr. Ravindranath, B.M.
VGO	Enhancement of reproductive efficiency in sheep through estrous synchronization and AI	RKVY	119.00	2012	Dr. A. Krishnaswamy



VETERINARY COLLEGE, BIDAR

VAN	Morphology and Cytoarchitecture of Olivary Nucleus in the brain stem of sheep and Goat	KVAFSU, Bidar	0.35	2014	Dr. Girish. M.H
VMC	Study on safety and immunogenicity of Brucella Rev-1 vaccine through subcutaneous and conjunctival routes in sheep and goats	IIL HYD	1.0	2014	Dr. Basavaraj Awati
VMC	Efficacy Testing Of Goat Pox Vaccine In Goats	IIL HYD	1.53	2015	Dr. Basavaraj Awati
VMD	Polymerase Chain Reaction based diagnosis of Theileriosis in cattle	KVAFSU, Bidar	0.45	2015-16	Dr. Vivek R. Kasaralikal
VSR	Developing interlocking intramedullary nails and evaluating the nails for tibial fracture in large ruminants	KVAFSU, Bidar	0.80	2014-15	Dr. Dilipkumar D.
VSR	Applications of sop plate for treatment of long bone fractures in dogs	KVAFSU, Bidar	0.45	2014-15	Dr. Jahangir Doddamani
VSR	Repair and reconstruction of surgical conditions of the udder and teat	KVAFSU, Bidar	0.40	2014-15	Dr. Bhagavantappa B.
VGO	Evolving new Kenguri strain of sheep with high prolificacy for sustainable sheep production in Northern Karnataka	KVAFSU, Bidar	-	2013-14	Dr. S M Usturge
VGO	A comprehensive novel approach of synchronization of oestrus in postpartum native sheep during non breeding season"	KVAFSU, Bidar	0.20	2014-15	Dr R G Bijurkar
VGO	Application of Anti-luteolytic strategies in treating repeat breeding cows.	KVAFSU, Bidar	0.50	2014-15	Dr V G Doddagoudar
LPM	Efficacy evaluation of some herbal products on growth and immunity parameters in Broilers	Ayurved Ltd., Baddi, Solan (H.P.)	0.68	2015-16	Dr. N. V. Jadhav
LPM	A study of the performance of Nari Swarna x Kenguri crossbreds	KVAFSU, Bidar	0.05	2013-14	Dr. Prashant Waghmare



ILFC	Relationship of body weight with body measurements in goats	KVAFSU, Bidar	0.05	2015-16	Dr. Siddalingaswamy Hiremath
ILFC	Studies on performance of perennial sorghum	KVAFSU, Bidar	0.70	2015-16	Dr. M. M. Nekar
VAHEE	Livestock Support and Extension Activities	KWDP-Sujala, GoK	17.68	2014	Dr. Prakashkumar Rathod
VETERINARY COLLEGE, SHIVAMOGGA					
LPT	“Upgrading the facilities in the area of meat processing including establishment of mini abattoir and quality control”	MoFPI under NMFP	75.00	2016	Dr. Chidanandaiah
VAE	Livestock support and Extension Activities	KWDP-Sujala, GoK	53.72	2014	Dr. K.C.Veeranna
VPE	Application of polyclonal hen egg yolk antibodies for the prevention of zoonotic food borne Salmonellae of poultry	SERB, DST	24.80	2015	Dr. Nagappa Karabasanavar
VAN	Gross anatomy of bones of mudhol hound dog	KVAFSU, Bidar	0.22	2014	Dr. Mutturaj. R.P
VAN	Organic polymer as Cowslips to protect the Hoof	RKVY, GOK	50.00	2015	Prof. R.V.Prasad
AGB	Comparative Study of production and reproductive performance of Malnad Gidda cattle maintained at veterinary college Shivamogga with farmers herd	KVAFSU, Bidar	0.20	2014	Dr. Azharuddin N
VPT	Evaluation of pharmacodynamic interactions between meloxicam with certain flouroquinolones	KVAFSU, Bidar	0.50	2017	Dr. Lokesh L.V
TVCC	Investigation of disorders of thoraco-abdominal region based on Ultrasonography findings and ultrasound guided sample collection in cattle	KVAFSU, Bidar	0.20	2015-16	Dr. Dhanalakshmi, S.
ANN	Evaluation of chemical composition and nutritive value of areca sheath as an alternate source of roughage for sheep	KVAFSU, Bidar	0.50	2013-14	Dr. Umashankar B.C.
ANN	Effect of L-Threonine supplementation on Egg	KVAFSU, Bidar	0.30	2015-16	Dr. Ravindra B. D.



	Quality parameters in Layers				
Veterinary Medicine	Studies on Bacterial and Parasitic Enteritis in Small Ruminants in and around Shivamogga	KVAFSU, Bidar	0.50	2014-15	Dr. Malatesh D. S.
VPP	A systematic documentation of the pathological conditions in captive wild animals in and around Shivamogga	KVAFSU, Bidar	0.60	2014	Dr. Kavitha Rani, B.
VETERINARY COLLEGE, HASSAN					
AGB	Herd registration and Field performance Recording of Amrithmahal cattle of Karnataka	KLDA	40.00	2014-15	Dr. G.S. Naveenkumar
ILFC	Utilization of maize cob shank and its sheath as a source of fodder for dairy animals	NABARD Bengaluru	9.45	2014	Dr. Suresh, B.N.
ILFC	Evaluation of efficacy of indigenous practices as feed supplement and protection against bacterial infection (BWD) in broilers in farmers field.	NIF project Ahamedabad	5.88	2013	Dr. M.S. Vasanth
LPT	Implementation of clean milk production practices at the village level	KVAFSU Bidar	0.25	2015	Sri DevarajaNaika, H.
TVCC	Studies on use of chelated minerals during transition period on reproductive performance of dairy cow	KVAFSU Bidar	0.50	2014	G.J. Renukaradhya
VAHEE	Promotion of intensive cultivation of Sesbania and Erythrina fodder tree crops for improving the efficiency of production of Dairy Cattle in Hassan taluka	KVAFSU Bidar	0.30	2015	Dr. Sushant Handage
VAHEE	Utilization of COFS29 for fodder and seed production in Hassan taluk	KVAFSU Bidar	0.40	2015	Dr. Manjunatha, L.,
VAHEE	Livestock support and extension activities, Sujala-III Project, Dept. of Watershed, GoK	World Bank, Sujala Project, GoK	20.63	2014	Dr. Manjunatha, L.,



DAIRY SCIENCE COLLEGE, BENGALURU

DT	Application of Modified Atmospheric Packaging (MAP) for extension of shelf life of Kunda	KVAFSU, Bidar	0.50	2015	Dr.L. Mahalingaiah
DT	Establishment of Food Technology and Rheology laboratory	MoFPI, New Delhi	75.00	2014	Dr. D.B Puranik
DT	Establishment of Food Processing Training Centre (FPTC)	MoFPI, New Delhi	15.00	2014	Dr. D.B Puranik
DC	Prediction of purity of milk based on protein-lactose ratio	KVAFSU, Bidar	0.60	2016	Mr. C. Kempanna
DMC	VTCC – Veterinary type culture collection of Dairy Microorganisms	ICAR	3.51	2010	Dr.H.Manjunatha
DMC	Study of antibiotic resistant LAB prevailing in the milk and dahi samples consumed at the rural areas (MPCS-attached village)	KVAFSU, Bidar	0.50	2015	Mr.B.Ramachandra

DAIRY SCIENCE COLLEGE, KALBURGI

DT	Support for live stock and extension activities	World Bank + State Govt.	6.77	2014	Dr.Sharanagouda B
DC	Production of clarified kokum whey drink	KVAFSU	0.20	2016	Mr. Rajanna M

COLLEGE OF FISHERIES, MANGALURU

Aqua	National Surveillance Programme for Aquatic Animal (Freshwater)	NFDB	76.93	2013	Dr. K. M. Shankar
Aqua	Novel molecular approaches for advancing prediction and mitigation of disease outbreaks in aquaculture for small scale farmers	UK - BBSRC	77.40	2016	Dr. K. M. Shankar
Aqua	Effect of dietary supplementation of DL-methionine on growth, survival, immune response and disease resistance in the juvenile of Indian major carp, <i>Labeo rohita</i> in the presence and absence of algae	M/s Evonic Industries Mumbai	4.55	2017	Dr. H Shivananda Murthy



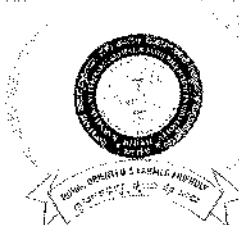
Aqua	Effect of L-Threonine supplemented diets on growth, survival, immune response and disease resistance of Indian major carp, <i>Labeo rohita</i> at two stocking densities	M/s Evonic Industries Mumbai	3.90	2017	Dr. H Shivananda Murthy
Aqua	All India Network Project on Mariculture	CMFRI, Kochi	16.66	2015	Dr. E.G. Jayaraj
Aqua	Evaluation of efficacy of mangala setright and mangala borosan on water quality and fish production	MCF	4.97	2017	Dr. Ganapathi Naik, M
AEM	Ecological monitoring of Arabian Sea receiving effluents from MCF Ltd	MCF	5.08	2016	Dr. Gangadhara Gowda
AEM	Monitoring of pollution impact by discharge of treated effluents from BASF, Mangaluru	BASF	6.32	2016	Dr. Lakshmi pathi M.T
AEM	Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point off Padubidri	UPCL	9.90	2016	Dr. H. R. V. Reddy
AEM	Monitoring of seawater quality (SPM) MRPL-ONGC, Mangaluru	MRPL-ONGC	5.70	2016	Dr. H. R. V. Reddy
AEM	Analysis of sea water monitoring at Marine outfall discharge point	MSEZ ltd	6.57	2016	Dr. Gangadhara Gowda
AEM	Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka	INCOIS, Hyderabad	67.45	2013	Dr. Gangadhara Gowda
FRM	Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka	INCOIS, Hyderabad	67.45	2013	Dr. S. Benakappa



FMC	Capture and removal of ammonia from fish processing waste using Archaea	NASF (ICAR)	91.14	2011	CIFE, Mumbai CC-Principal Investigator: Dr. S. K. Girisha
FMC	Defense genes of tiger shrimp (<i>Penaeus Monodon</i>) with respect to bacteria (<i>Vibrio harveyi</i>) and white spot virus (WSSV) infection	NASF (ICAR)	68.65	2012	CIBA, Chennai CC-Principal Investigator : Dr. M N Venugopal
FMC	National Surveillance Programme for Aquatic Animal (Brackishwater)	NFDB	70.43	2013	Dr. M N Venugopal
FMC	DBT – Bioinformatics – Distributed Information Sub Centre (DISC)	DBT	10.77	2012	Dr. M N Venugopal
FPT	All India Coordinated Research project on Post-Harvest Technology	ICAR	339.30	2012	Dr. C.V. Raju
FPT	Infrastructure facility for improving the fish processing technology department	MOFPI	75.00	2014	Dr. C.V. Raju
FET	Development of Artificial Reefs in inshore waters to enhance the marine fish stock	Dept. of Fisheries under RKVY	62.00	2015-16	Dr.B. Hanumanthappa
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU					
IAH&VB	All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance	ICAR	11.00	1998	Dr. P. Giridhar Dr. Raveendra Hegde
IAH&VB	All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease.	75% ICAR; State-25%.	50.00	1997	Dr. S. M. Byregowda
IAH&VB	Southern Regional Disease Diagnostic Laboratory	Government of India	264.00	1999	Dr. S. M. Byregowda
Biological Production Division	Up gradation of vaccine production laboratories as per GMP for consistent supply of vaccines to livestock and poultry of farming community.	Govt. of India, RKVY	1300.00	2010	Dr. S. M. Byregowda



Biological Production Division	Centre for development of vaccines and diagnostics with a special reference to emerging diseases affecting livestock and poultry of farming community.	Govt. of India, RKVY	630.00	2010	Dr. S. M. Byregowda
Biological Production Division	Development of Mycoplasma vaccine and diagnostic antigen for small ruminants.	IAH&VB	2.00	2012-13	Dr. S. M. Byregowda
Biological Production Division	Development of combined Sheep pox and PPR vaccine for small ruminants	NCP – PPR	4.00	2013-14	Dr. S. M. Byregowda
Biological Production Division	Standardization Of Black Quarter Vaccine Using Montanide Adjuvant	IAH&VB	2.75	2012-13	Dr. S. M. Byregowda
LIVESTOCK RESEARCH & INFORMATION CENTER (SHEEP), NAGAMANGALA					
LRIC	Mega Sheep Seed Project (Mandya Sheep)	ICAR	184.02	2009	Dr. R. Nagaraja (2009-2014) Dr. Naveen Kumar S, (2014) Dr. Siddalinga Murthy H K, (2014-till date)
LIVESTOCK RESEARCH & INFORMATION CENTER, KONEHALLY, TIPTUR					
LRIC	Establishment of Amrithmahal cattle breeding station at Livestock Research and Information Centre (Amrithmahal), Konehalli, Tiptur	DAH&VS, GoK	251.00	2009-10	Dr. M.S. Rudraswamy
LRIC	Evaluation of spineless cactus as green fodder on the performance of sheep	KVAFSU	0.25	2015-16	Dr. M.S. Rudraswamy
CANINE RESEARCH & INFORMATION CENTER, TIMMAPUR, BAGALKOT					
CRIC	Livelihood Security through Mudhol Hound Rearing	SCP-TSP	300.00	2013-14	Dr. Mahesh S Dodamani



FISHERIES RESEARCH & INFORMATION CENTER, HEBBAL, BENGALURU					
FRIC	Establishment of fish seed, production cum demonstration farms for extension activities	NFDB, Hyderabad	23.94	2014	Dr. K.N. Prabhudeva
FRIC	Monitoring water quality of few selected lakes (15 lakes) in Bengaluru city.	LDA, Bengaluru	LDA	2014	Dr. K.N. Prabhudeva
FRIC	Survey on status of fish production, supply and demand, processing industries and management strategies in Karnataka state”	KFDC, Mangalore	4.00	2014	Dr. K.N. Prabhudeva
FRIC	Utilization of seasonal water bodies for Aquaculture Demonstration under watershed areas in ChamaraJanagar District under support for Livestock and Extension activities.	Sujala-III Watershed Development, Bangalore	19.12	2014	Mr. K.B.Rajanna Dr. S. Vijaykumar
FISHERIES RESEARCH & INFORMATION CENTER, HESARAGHATTA					
FRIC	Development of Brood Bank for Amur Common Carp	NFDB, Hyderabad	60.00	2011-12	Dr. Y.Basavaraju
FRIC	Sex manipulation in common carp and its hybrid using Indian Major Carp, Rohu: Genetic and Molecular Endocrinological approaches	DBT	30.74	2015-16	Dr. Y. Basavaraju – PI – KVAFSU component Dr. Senthilkumaran – PI - University of Hyderabad component
FRIC	Quality fish seed production of important cultivable fish seed	Govt. Of Karnataka	32.00	2015-16	Dr. Y.Basavaraju
FRIC	Developed technology for fish culture in water harvesting structures in watersheds funded by Karnataka Watershed Development Department under Sujala III - Davanagere District	Govt. Of Karnataka	10.87	2015-16	Dr. Manjappa N



FISHERIES RESEARCH & INFORMATION CENTER, ANKOLA					
FRIC	All India Network Project on Mariculture	CMFRI, Kochi	16.675	2015-16	Dr.E.G.Jayaraj
FRIC	Dial feeding periodicity of Pearl Spot, <i>Etroplus suratensis</i> (Bloch) in Ankola (Bela) waters	Dept. of Agric. Karwar	1.47	2013-14	Dr. Mansingh Naik
FRIC	To take up as an attempt to culture of Brackish water fishes(Mullet) alternative to shrimp farming	Dept. of Agric. Karwar	1.50	2013-14	Dr. Mansingh Naik
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA					
FRIC	KWDP- II (Sujala III) Project on support livestock and extension activities	GoK	10.87	2014	Dr. Vijayakumar S
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI					
AHPS	Livestock Support & Extension Activities	Sujala-III, KWDD	27.34	2014-15	Dr. Shivakumar K. Radder

ABSTRACT OF ONGOING RESEARCH PROJECTS

#	College /Institute	Research Projects	
		Total Nos.	Amount
1	Veterinary College, Bengaluru	23	1368.27
2	Veterinary College, Bidar	15	24.84
3	Veterinary College, Shivamogga	12	206.54
4	Veterinary College, Hassan	8	77.41
5	Dairy Science, College, Bengaluru	6	20.86
6	Dairy Science College, Kalburgi	2	6.97
7	College of Fisheries, Mangaluru	25	1070.17
8	IAH&VB, Bengaluru	8	2263.75
9	LRIC, (Sheep), Nagamangala	1	184.02
10	LRIC (A), Konehally, Tiptur	2	251.25
11	CRIC, Timmapur	1	300.00
12	FRIC, Hebbal	4	47.06
13	FRIC, Hessaraghatta	4	133.61
14	FRIC, Ankola	3	19.645
15	FRIC, (B)	1	10.87
16	AHP, Shiggaon	1	27.34
TOTAL		116	6012.605



b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: Development of new meat type crossbred sheep with exotic Dorper breed.

1. Development of new meat type crossbred sheep with exotic Dorper breed:
 - Construction of sheep yard is in progress.

Title: Flash based innovative technique as an aid in teaching Veterinary Anatomy.

1. 3-D animation video graph of the fore limb of buffalo calf with details of blood supply and orientation of the muscles running on the bones of fore limb has been completed the nerve supply to the same component in under progress. In addition to that the video graph of the original fore limb dissection along with audition is also made. Description of the individual muscles and their blood supply is also highlighted in the animated E-Module. Lastly a quiz pertaining to the limb is also added in the text for the assessment of the students efficiency. Further modules are in progress but due to delay in release of funds the work could not be carried out.
2. Two modules has been completed. The animated forelimb bone articulation has been depicted. The orientation of various forelimb muscles have been animated along with blood supply to these muscles. The second module on head region animation depicting the bones, muscles and their blood supply has been completed. Further modules are in progress but due to delay in release of funds the work could not be carried out.

Title: Morphological studies on fore and hind limb bones of Sloth Bear (*Melursus ursinus*).

1. Collaboration with Dr. Arun A. Sha, Director -- Research and Veterinary Operations Wildlife SOS, Bannerghatta Bear Rescue Centre, Bannerghatta Biological Park, Bengaluru -82, has been made for collection of bones of the limbs and other specimens of the sloth bears. Processing of fore limb bones will be completed by March/2016 end. The collection and processing of hind limb bones of the bears will be completed by next academic year (2016-17). The process of procurement of chemicals and other consumables requires for the project is in progress.

Title: Promoting Health, Livelihood and Sustainable Livestock Systems; India Research Initiative on Peri-Urban Human-Animal-Environment Interface.

A. Estimate the burden

- a) Estimate the prevalence of *M. bovis* infection among livestock in small holder dairy farms in peri-urban areas.
- b) Describe and quantity antibiotic use and associated levels of milk production, including testing of pooled milk samples for antibiotic residues.

B. Describe the problem

- a) Assess the drivers and farm-level risks of Bovine tuberculosis to workers, their families, animals and the larger community.
- b) Identify drivers of antibiotic use at the farm, market and policy levels.

C. Identify policy targets

- a) Inventory policies and farm practices in 3 different dairy producing regions in India.
- b) Evaluate them against International practices to minimize the prevalence of *M. bovis* and antimicrobial use and the spread of resistance.



D. Knowledge-to-action

- a) Develop and implement examples of best practices to demonstrate sustainable and locally relevant alternatives to reduce the risk of *M. bovis* and antibiotic use.

Title: Study on development & effectiveness of mobile application on fodder production in Karnataka.

- a) The contents and photographs on Mobile application on various fodders (18) were compiled. Development phase of the app is under progress.

Title: Develop and Evaluate Use of Mobile application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production.

- a) As the project is sanctioned in month of March 2016, procurement of required equipments is under progress.

Title: FIST, DST, Govt. of India.

- a) Tenders for purchase of 13 equipments have been finalised. The purchase orders for the same have also been sent for supply of instruments

Title: Project on Diagnosis of Rabies and Anthrax in Animals: Outreach Programme on Zoonotic diseases.

Rabies:

- Screened suspected brain samples of animals for rabies.
- A total of 101 clinically suspected rabies samples were collected from various host species (resourced from different States). Rabies was confirmed in 66 out of the 101 suspected brain specimens by DFA.
- Development of Rabies virus (RABV) G protein antigen based ELISA for sero-monitoring of vaccinal antibodies in dogs is under progress.

Isolation and characterization of Anthrax bacilli

- 44 samples were collected from outbreak in small ruminants reported at Devasamudra village, Hospet taluk in Bellary district. Out of which, 4 samples were found positive for anthrax, of which 3 samples were from affected animals and 1 sample was from dead animal.
- 2 samples were collected from outbreak in cattle near Gundulpet taluk, Mysuru district. Both the samples from dead animals and found positive for anthrax.

Title: Innovative tests for the diagnosis of Animal diseases.

- Procurement of instruments is under progress.
- Research activities on mycotoxins (aflatoxin, T-2 toxin and ochratoxin) is under progress.
- Leptospirosis screening work is under progress and about 250 serum sample are collected and screening is under progress.
- Studies on parvoviral enteritis and Ehrlichiosis in dogs is in progress.
- Studies on occurrence of common neoplasms in dogs is under progress.

Title: Efficacy of Diatomaceous Earth in mycotoxicosis

Diatomite is a latest mycotoxin adsorbent and it was experimentally tried in Aflatoxin, ochratoxin and T-2 toxin amelioration in poultry feed. The study conducted in broiler chickens revealed



effectiveness of diatomite at 800 and 2000ppm level in adsorbing these toxins in feed. The study was also revealed diatomite is non-toxic, inert and does not alter the palatability of the feed.

Title: Anti-cancerous and safety study of *Bridelia retusa* in rats.

- a) Induction of the mammary tumor in rats with DMBA Dimethylbenz(a)-anthracene) is done in rats.
- b) The plant methanol extract was given in various doses to different groups of rats and @ 400 mg/kg it was proved to have anti-cancerous property.
- c) The toxicity study is being conducted as per standard protocols/guidelines and is under progress.
- d) The plant extract @ 400 mg/kg showed to be moderately toxic.

Title: Evaluation of anti-diabetic property of few breeds of cow urine in rats.

- a) The urine of cows of Malnad breed was collected.
- b) Prepared the distillate of the above said cow urine in the similar to the traditional manner.
- c) Chemically induced the diabetes in rats using streptozotocin.
- d) Completed the study of Malnad Gidda cow urine distillate for its anti-diabetic property.
- e) It was found that the Malnad Gidda cow urine distillate showed anti-diabetic property. When compared to the standard drug, it was non significant.

Title: Strengthening of Poultry farm at Poultry science Department, Veterinary College, KVAFSU, Hebbal, Bengaluru for empowerment of rural youth and rural women.

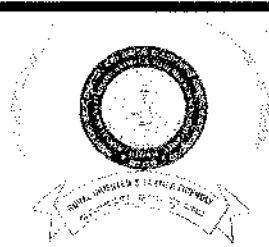
- a) Distribution of 4 week old chicks to the beneficiaries initiated
- b) Separate revolving fund to the project created

Title: Effect of post insemination progesterone supplementation on fertility rates of repeat breeding crossbred cows.

- a) Selection of 59 repeat breeder CB cows has been completed.
- b) CIDR Group: 31 cows have been received CIDR.
- c) Proluton depot Group: 22 animals were given Proluton depot injection.
- d) Screening of animals for Pregnancy will be taken up as and when they complete 60 days of post insemination by per rectal method.

Title: Enhancement of reproductive efficiency in sheep through estrous synchronization and AI.

- Reproductive parameters for NAARI SUVARNA ewcs has been established and is comparable with other Indian breeds.
- However, Incidence of twinning in NAARI SUVARNA is as high as 70 per cent.
- Incidence of twinning not affected by type of grazing.
- However, ewes maintained only on pature grazing deliver lambs of low birth weight and a high incidence of neonatal mortality (30 per cent).
- Ewes on pasture grazing have very poor milk yield and mothering instinct.
- For best results NAARI SUVARNA are to be maintained on pasture grazing as well as supplementation of a balanced concentrate mixture.
- NAARI SUVARNA flock has been established and the animals have been utilised by other departmetns such as LPM, Anatomy, Physiology and AGB for research purpose.



- Supplementation of cows milk improves the gain in weight post natal in lambs.
- The technique of AI is easy and adoptable under field conditions.
- The technology of estrous synchronization is standardized, simple and adoptable under field conditions.
- There has been plenty of enquiry regarding NAARI SUVARNA ewes by the farmers.

VETERINARY COLLEGE, BIDAR

Title: Study on safety and immunogenicity of Brucella Rev-1 vaccine through subcutaneous and conjunctival routes in sheep and goats.

Field trial of *Brucella melitensis* Rev-1 vaccine through subcutaneous route.

In goats, brucellosis is mainly caused by *Brucella melitensis* which is an important reproductive disease and is characterized by abortion in the fourth or fifth month of gestation, stillbirths and reproductive failure.

The live *B. melitensis* Rev.1 vaccine is the most widely used vaccine in control programs against brucellosis in small ruminants in different parts of the world. In India, *B. melitensis* Rev.1 vaccine for small ruminants is officially not recommended by the Government of India.

Control of brucellosis is an important task where farmers can be saved from severe economic losses that can incurred due to this dreaded disease. Hence present study was undertaken to evaluate the safety and immunogenicity of a new live freeze dried vaccine produced by IIL.

The study was undertaken in seronegative goats of 3-6 month age of dept. of ILFC, veterinary college, Bidar, and goats of rural households of village Mandaknalli, Bidar. They were vaccinated subcutaneously with 1ml of vaccine consisting 0.5×10^9 to 4.0×10^9 viable organisms and monitored for clinical and serological response for a period of 8 weeks of post vaccination.

Humoral response was assessed using sera collected on day 21st and 60th by serological assays viz., RPAT, STAT, indirect ELISA and competitive ELISA. Positive reactions were observed in RPAT and STAT. The sensitivity of RPAT was found to be more compared to STAT and was quick as well. Specific antibody response against *B. melitensis* vaccine was demonstrated by i-ELISA and c-ELISA in which there was increased antibody response for 21st day and 60th day post vaccination sera samples.

Statistical analysis of data revealed that there was significant difference in antibody titre of pre and post vaccination sera samples and no significant titre was observed in the control animals. Hence, the vaccine was found to be safe and immunogenic protecting healthy goats.

Title: Study on the Safety and Immunogenicity of Goat Pox Vaccine in Goats.

Goat pox is a highly contagious viral disease of goats characterized by fever, oculo-nasal discharges and caused by goat poxvirus of the genus capripoxvirus and family poxviridae. The disease inflicts substantial losses in terms of reduced productivity and lower quality of wool and leather and it poses a major obstacle to the intensive rearing of goats and considerably hamper international trade.



Goat pox currently being prevalent throughout the Indian subcontinent, a freeze dried tissue culture Uttarkashi strain of goat pox vaccine was produced by Indian Immunologicals, Hyderabad. The present study was undertaken to evaluate the safety and immunogenicity of the vaccine in seronegative goats of dept. of Instructional Livestock Farm Complex, Veterinary college, Bidar and at rural households of Mandaknalli village, Bidar.

They were vaccinated subcutaneously with 1ml of vaccine consisting $2.5 \log_{10}$ TCID₅₀ and monitored for clinical and serological response for a period of 8 weeks of post vaccination. Humoral response was assessed for sera collected on day 30 and 60 using various serological assays viz., AGID, CIE, i-ELISA and SNT. Confluent precipitation lines had developed against goat pox vaccine antigen when subjected to AGID and CIE.

The sensitivity of CIE was found to be more compared to AGID and CIE was quick as well. Specific antibodies against goat pox vaccine were demonstrated by i-ELISA and SNT in 30th day sera samples which increased on 60th day sera samples of post vaccination.

On statistical analysis the antibodies were significantly differing on pre and post vaccination sera samples, whereas no antibodies were detected in the unvaccinated control animals. Hence, the vaccine was found to be safe and immunogenic as evident from sero-conversion studies.

Title: Evolving new Kenguri strain of sheep with high prolificacy for sustainable sheep production in Northern Karnataka

In first trial, a group of 20 Kenguri ewes was inseminated with NARI Frozen thawed semen. The lambing rate by inseminating the Kenguri ewes with frozen thawed semen was lowest (10%) in transcervical method. None of the Kenguri ewe showed any disease or accident during gestation and lambing after using NARI Suwarna frozen thawed semen. The sex of both the lambs was female with body weight ranging from 2.35 to 2.60 with gestation period range of 147 to 151. A new Kenguri strain-1 of sheep (Kenguri > 50% + Deccani < 40% + Garole < 10%) can be produced using frozen thawed semen of NARI Suwarna strain from Kenguri breed.

In second trial, 30 Kenguri ewes were inseminated with fresh NARI Suwarna semen during oestrus period and 26 Kenguri ewes lambed (86.66%) with 16 females and 11 male and 1 ewe recorded stillbirth. Out of 26 Kenguri ewes, 1 reported twinning.

In third trial, a total of 49 Kenguri ewes were inseminated with fresh NARI Suwarna semen during oestrus period and a total of 17 Kenguri ewes lambed (34.69%) with 10 females and 7 males. Out of 17 Kenguri ewes, 1 reported twinning.

A new Kenguri strain-1 of sheep (Kenguri > 50% + Deccani < 40% + Garole < 10%) was produced using fresh semen of NARI Suwarna strain from Kenguri breed.



Title: Livestock Support and Extension Activities

S. No.	Activities	Location	Achieved (No's)
1.	Awareness programmes/ workshops/ sensitization	GP Level	09
2.	Summer management of buffaloes	Village Level	02
3.	Enrichment of dry fodder/ Management of calf	Village Level	4
4.	Detection & control of sub-clinical mastitis	Village Level	5
5.	Introduction of Rams/Bucks	Village Level	Beneficiaries of Mustari Village selected.
6.	Identification of high yielding indigenous cows and buffalos	Village Level	In progress
7.	Collection and analysis of blood, dung, milk etc for assessing herd health samples/ month	Village Level	71 samples
8.	Establishment of fodder nurseries (Minimum of 10 varieties in 2 guntas)	Village Level	02
9.	Promotion of <i>Sesbania</i> as fodder for livestock	Village Level	02
10.	Field Day	Village Level	01
11.	Training Programmes for beneficiaries (Goat farming)	84 farmers in Mustari Village	Organized in collaboration with Extension Education Center, Bidar

VETERINARY COLLEGE, SHIVAMOGGA

Title: “Upgrading the facilities in the area of meat processing including establishment of mini abattoir and quality control”

- The construction of slaughter house for sheep & goat has completed and sheep slaughter instruments were installed
- The instruments procured under 1st instalment (Rs. 37.5 Lac) were installed and made functional
- The second and final instalment of Rs. 37.50 lakhs was Sanctioned and released rupees for the project vide reference no. No.DA&MD/NMFP/C-IIIa-07/2012-13 and code No. C-IIIa-07/IFS/SH/2012-13 Dated 08.12.2015.
- The purchase of remaining instruments (Viz. Texture Analyser, Meat band saw, Real Time PCR & other slaughter & Quality control instruments) is under progress



Title: Livestock support and Extension Activities

1. Organised 11 awareness campaigns cum demonstration
2. Established two fodder nurseries
3. Established two rural hatchery units
4. Field day on Fodder crops – 02
5. Supplementary feeding trial in goats
6. Distribution of 20 Rams for the beneficiaries
7. Analysed 780 milk samples for sub clinical mastitis

Title: Application of polyclonal hen egg yolk antibodies for the prevention of zoonotic food borne Salmonellae of poultry

- a) A total of 585 poultry samples (chicken, eggs and cloacal swabs) were analyzed for the presence of Salmonella, of which 11 Salmonella isolates were recovered based on biochemical, serological and molecular characteristics.
- b) All the isolates showed virulence gene as evidenced by amplification of 284 bp virulence-specific amplicon.
- c) Out of 11 isolates, 7 were Salmonella enterica serotype Enteritidis, 3 were Salmonella enterica serotype Typhimurium and 1 was Salmonella enterica serotype Gallinarum.
- d) White leghorn chickens were immunized with S. Typhimurium and S. Enteritidis to raise the serotype-specific immunoglobulins.
- e) Immunoglobulins were isolated from the egg yolk using ammonium sulphate precipitation method; purified immunoglobulin showed 180 kDa bands by native PAGE.
- f) In vitro growth inhibition assay confirmed inhibition of growth of Salmonella serotypes using specific immunoglobulins.
- g) Challenge studies to ensure passive protection is under progress.

Title: Gross anatomy of bones of mudhol hound dog

Gross anatomy of bones of mudhol hound dog:

1. Studied gross morphology of all Appendicular and axial skeletal bones
2. Studied the biometric parameters of Appendicular skeletal bones (long bones)
3. Studied the biometric parameters of skull
5. Prepared a skeleton of mudhol hound dog for museum.
6. Further, remaining parameters like volume, density, weight and Corticomedullary index of long bones of mudhol hound dog will be studied.

Title: Organic polymer as Cowslips to protect the Hoof

Organic polymer as Cowslips to protect the Hoof:

1. Procured of hoof specimens of various crossbred cows and studied morphometry of hoof
2. Purchase of demotec cowslips from UK already available in market
3. Analysis of material of demotec cowslips using FTIR at CPRI, Bengaluru
4. Scanning and 3D modeling of PVC based cowslips was done
5. Designing of indigenously (PVC/Rubber) made cowslips as per the morphometric data.



Title: Comparative Study of production and reproductive performance of Malnad Gidda cattle maintained at veterinary college Shivamogga with farmers herd

1. Collecting the data at Malnad Gidda cattle maintained at veterinary college, Shivamogga.
2. Identified 4 talukas (Thirthalli, Hosanagara, Sagara, and Soraba)
3. Prepared a Suitable questionnaire for recording of milk production parameters
4. In each talukas about 15-20 villages selected for random data collection regarding milk production and reproductive parameters.
5. So far visited two veterinary dispensaries comprise 8 villages of Thirthalli and Hosanagar taluka and started collecting the data of 50 animals.

Title: Evaluation of pharmacodynamic interactions between meloxicam with certain flouroquinolones

1. Chemicals and glasswares procured.
2. PI has been deputed to pursue PhD on part time basis and has completed the same and take up the research work soon

Title: Investigation of disorders of thoraco-abdominal region based on Ultrasonography findings and ultrasound guided sample collection in cattle.

Out of 21 animals, ultrasound guided sample collection was done six animals and subjected to microbiological and/or cytological investigation. Ultrasonography helped in visualization of abnormal findings like Pericardial effusions, pleural effusions and intestinal distention due to obstruction, decreased rumeno-reticular contractions, enlarged liver and gall bladder.

Title: Evaluation of chemical composition and nutritive value of areca sheath as an alternate source of roughage for sheep

Digestion and metabolic trials are under progress

Title: Effect of L-Threonine supplementation on Egg Quality parameters in Layers

Digestion trials are under progress

Title: Studies on Bacterial and Parasitic Enteritis in Small Ruminants in and around Shivamogga

- Work is under progress.
 - a. Both fecal sample and blood were collected from suspected animals (sheep & goats) having diarrhoea presented to Teaching hospital, VCS and adjacent villages.
 - b. Fecal samples and blood samples were subjected to Bacterial and parasitic investigations.

Remarks /Difficulties if any

- Extension of duration of project: One year (extension is required for processing of samples).



- Change of CO-PI: Dr. Shambulingappa, Associate Professor & Head, Department of Microbiology in place of Dr. Sheela P Assistant professor who is on Deputation for PhD and letter sent to Director of Research regarding change of Co-PI.

Title: A systematic documentation of the pathological conditions in captive wild animals in and around Shivamogga

The work on this project has been started during 2014-15. The area covered were in and around Shivamogga that come under the Shivamogga Wildlife Division (Bhadra Reserve forest, Shettihalli range forest, Kumsi range forest, Tyavarekoppa Lion Safari, Sakrebylu forest area, Thirthalli forest area) in conjunction with the officers of the wildlife division and Dept of AH&VS.

Several cases of wild / captive animals received for post mortem examination at Veterinary College, Shivamogga have been subjected to various types of investigations in support of diagnosis of pathological conditions. Gross pathological, histopathological, cytopathological, microbiological and in some cases haematological investigations are being carried out.

As on today, the non-infectious mortal conditions recorded were gunshot injuries (flying squirrel, mouse deer, peahen), foreign body impaction (ostrich), foreign body gastritis (leopards, ostrich), traumatic proventriculitis and perforations (ostrich, Lady Amherst's pheasant), anaemia, blunt injuries (leopard, Black buck), burn injuries (leopard), cardiac dilatation and hepatic disorders associated with chronic passive hyperaemia (lioness), fractures / dislocations (leopard), smothering (leopard), poisoning (Spotted deer, fox).

The infectious conditions encountered were New Castle disease (Red Jungle fowls, peacock), Canker mouth (Indian rock python), parasitic enteritis involving nematodes and cestodes (leopards and Indian rock pythons), Ophidascariasis with pulmonary regurgitation (Indian rock python), tuberculosis (leopard), gangrenous myositis (leopards and black buck), fungal dermatitis (elephants), haemorrhagic and ulcerative gastritis and enteritis (elephant), septicemia associated cardiac thrombosis, pulmonary embolism, cystitis and uremic gastropathy (Bengal tiger), Chronic nephritis (Bengal tiger), necrotic ingluvitis and oesophagitis (Lady Amherst's pheasant) and non-specific enteritis. Parasitic cysts in liver, spleen and stomachs of wild felines have been recorded.

In this project work, a total of thirty one wild animal post mortem cases have been documented till date. The incidence of non-infectious conditions is found to be more than infectious conditions as on today. Histopathology and review of literature is under progress for these cases.

DAIRY SCIENCE COLLEGE, BENGALURU

Title: Application of Modified Atmospheric Packaging (MAP) for extension of shelf life of Kunda

- Food Technology and Rheology lab is being established with procurement of Rheometer and water activity meter.
- The lab will be operational once necessary electrical and water connections are made.



Title: Establishment of Food Technology and Rheology laboratory

Food processing training center is established in the Dairy Technology department by procuring necessary equipments such as oven, bread slicer, dough mixer, display unit etc. This will be operational from June this year.

Title: Establishment of Food Processing Training Centre (FPTC)

Application of Modified Atmospheric packaging for extension of shelf life of kunda: Project has not yet started due to some unexpected circumstances. It will start as soon as funds are released from the university

Title: Prediction of purity of milk based on protein-lactose ratio

Whey obtained during the manufacture paneer was analyzed for chemical composition of lactose, protein, fat and minerals. Hydrolysis of lactose in whey was carried out by using lactase enzyme. Conditions for hydrolysis of lactose for different parameters like temperature, pH and enzyme concentrations were standardized. The degree of hydrolysis of lactose estimated by was estimated by glucose content in whey.

Title: VTCC – Veterinary type culture collection of Dairy Microorganisms

A total of 10 phenotypically and genotypically identified lactic bacterial isolates obtained from domestic dahi samples from southern dry zone (Bengaluru) & Chamrajanagar) were freeze dried and will be submitted to NCDC, Karnal during 2015-16. Another total 10 lactic isolates obtained from Tamilnadu and Kerala which have phenotypically identified will be sequenced, freeze dried subsequently and will be submitted during 2015-16.

Total of 20 isolates will be submitted to NCDC, Karnal during 2015-16

Title: Study of antibiotic resistant LAB prevailing in the milk and dahi samples consumed at the rural areas (MPCS-attached village).

1. Collection of samples

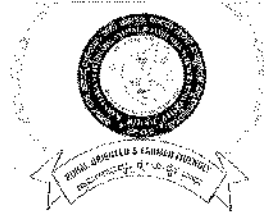
- 5 domestic dahi (prepared at home) samples collected from village -The locally used dahi culture (previous day dahi used as inoculum) was inoculated to the boiled and cooled milk.

2. Enumeration of LAB

- Dahi samples analyzed for various LAB such as lactococci, lactobacilli, leuconostoc and streptococci using MRS agar for lactobacilli, leuconostoc and M17 agar for lactococci and streptococci isolates.
- Lactococci and leuconostoc counts incubated at 30°C, lactobacilli and streptococci incubated at 37°C in the candle jar.
- Colonies selected from the respective agar plates and transferred to the respective broths.

3. Isolation and identification

- The purified isolates of LAB subjected for biochemical tests as per the standard Bergey's manual identification key.



- Based of the identification, the isolates were assigned to the particular species.

COLLEGE OF FISHERIES, MANGALURU

Title: National Surveillance Programme for Aquatic Animal (Freshwater)

Under the National fish disease surveillance programme (freshwater) routine sampling and screening in the Karnataka State fish farms by PCR was negative for 2 viruses KHV and SVCV. For the first time EUS was recorded in Linganamakki reservoir and the disease was found to be prevalent in brackishwater fishes of coastal Karnataka.

Title: Effect of dietary supplementation of DL- methionine on growth, survival, immune response and disease resistance in the juvenile of Indian major carp, *Labeo rohita* in the presence and absence of algae

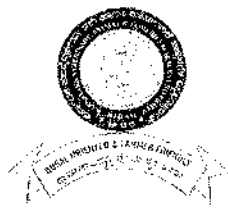
Higher value was obtained by the dietary inclusion of 0.20% of supplemented methionine (F_2) in case of with algae treatment (WAF2) that promoted significantly ($p < 0.05$) greater weight gain, FCR and SGR. A significant linear increase ($P < 0.05$) in the NBT-value and total serum count with increase in dietary methionine up to 50 g kg⁻¹ of the dry diet (F_4) for without algae treatments and 20 g kg⁻¹ methionine diet (F_2) for with algae treatments.

Title: Effect of L-Threonine supplemented diets on growth, survival, immune response and disease resistance of Indian major carp, *Labeo rohita* at two stocking densities

Study indicated that in both in low density (LD) and high density (HD) groups FCR was lowest in *Labeo rohita* fed the diet containing 4g L-threonine and highest FCR was noted in the fish fed control diets. With regard to immune responses, in LD, the NBT in two treatments namely T_1 and T_2 were significantly higher than control group and T_3 . In HD, NBT in two treatments namely T_1 and T_2 significantly higher than control group. Total Serum protein in both stocking densities (LD and H.D) there were significant increase ($P > 0.05$) of total serum protein in the fish fed with 4g L-threonine incorporated diet than fish fed with other treatments and control diets.

Title: All India Network Project on Mariculture

- A zero sediment probiotic based rearing system has been developed for conditioning the wild collected seed of sand whiting fry and fingerlings for the development of broodstock
- Species specific fish meal based artificial pelleted feed with 38% protein for sand whiting has been developed.
- Earthen pond based system for brood stock development of milk fish has been standardized with commercial carp floating feed (CP) as a growout feed with (not less than) 30% protein (actual assay 31.01%).
- Fish seed resource survey for the establishment of seed bank along Uttara Kannada pertaining to post-monsoon revealed the presence of prioritized promising fish species for mariculture like sand whittings (*Sillago Sp.*), mullets and red snapper seed resources.



Title: Ecological monitoring of Arabian Sea receiving effluents from MCF Ltd

The physico-chemical characteristics including nutrients of Thannirbhavi, coastal waters off Mangaluru exhibited normal seasonal and spatial variations.

Title: Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point off Padubidri

Water quality - within the ambient levels of coastal environment, Phytoplankton: 35 genera, Diatoms dominant, followed by dinoflagellates and blue green algae, Zooplankton -21 genera Copepods, tintinids, Oikopleura, polychaetes and decapod larvae (dominant), Benthos - 14 genera molluscs & polychaetes (dominant), Bioassay studies - no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout.

Title: Monitoring of seawater quality (SPM) MRPL-ONGC, Mangaluru

- Water quality within the ambient level of coastal environment
- Phytoplankton represented by 30 species, Zooplankton - 20 species and Macrobenthic community - 17 genera

Title: Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka

Indirect validation: Based on secondary data collection

The landings on days when advisory was available within 50 m depth was considered as advisory days (PFZ) catch as purse seiners do not fish beyond 40 M depth.

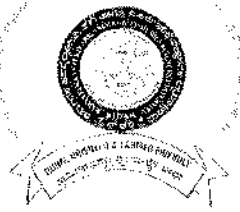
The landings on days when advisory was beyond 50 M depth, landings on those days were considered non notified (non PFZ) catch as purse seiners did fishing in non notified areas

Title: Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka

As per the suggestion of INCOIS two sampling stations were fixed at Mangaluru and Malpe for time series data collection. A total of 12 cruises were conducted at Mangaluru and 11 at Malpe. The collected fish samples were analyzed for gut content composition to ascertain the feeding habit of fishes. Sex, gonad weight, maturity stage, fecundity, Gonado-Somatic Index and Sex ratio were analyzed. Ova diameter was studied to assess the spawning periodicity of fishes. Water and phytoplankton samples from fixed stations were collected and the following parameters were analyzed.

Title: Capture and removal of ammonia from fish processing waste using Archaea

The ammonia-oxidizing bacteria (AOB) that have the potential to reduce ammonia were successfully isolated and characterized from waste water treatment plants located in and around Mangaluru. Isolated AOB was identified on the basis of 16S rRNA gene sequencing and the sequences were submitted to GenBank. Laboratory experiments showed the AOB isolates to efficiently reduce ammonia concentration in sewage water samples.



Title: Defense genes of tiger shrimp (*Penaeus monodon*) with respect to bacteria (*Vibrio harveyi*) and white spot virus (WSSV) infection.

Tissue samples (haemolymph, gills, hepatopancreas, lymphoid organ and muscle) collected at various time points (6, 12, and 24h) from Shrimp (*Penaeus monodon*) infected separately with *Vibrio harveyi* and white spot syndrome virus (WSSV) used to extract total RNA and cDNA synthesized by Reverse Transcriptase PCR (RT-PCR). Primers were designed and amplified shrimp antimicrobial genes, Stylicin (Sty), Akirin (Akn), Ribosomal protein 8 (L8), Carcinin (Car) and Bactenecin (Bac). Stylicin (STY) with an ORF of 367 bp was amplified from WSSV infected animal, cloned and expressed in BL21 *E. coli* cells.

Title: National Surveillance Programme for Aquatic Animal Diseases: Surveillance of shrimp diseases in coastal Karnataka

Shrimp and pond water samples collected monthly from shrimp culture farms in Udupi and Uttara Kannada districts of Karnataka transported to the laboratory were tested for the presence of DNA viruses such as white spot syndrome virus (WSSV), monodon baculovirus (MBV), hepatopancreatic parvovirus (HPV), infectious hypodermal and hematopoietic necrosis virus (IHHNV) and RNA viruses such as taura syndrome virus (TSV), yellow head virus (YHV), infectious myonecrosis virus (IMNV) and other emerging pathogens causing acute hepatopancreatic necrosis disease (AHPND) and enterocytozoon hepatopenaci (EHP). Results reveal a very low prevalence of WSSV in a few shrimps farms and absence of all other pathogens tested.

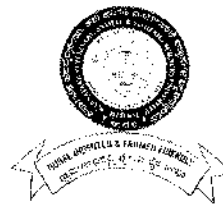
Title: DBT – Bioinformatics – Distributed Information Sub Centre (DISC)

Bioinformatics analysis involved studying the Characterisation of the Extended Spectrum β -Lactamase (ESBL) and non-ESBL producing *Escherichia coli* isolated from hospital and fish processing plant waste waters; typing of *Vibrio vulnificus* strains associated with clams (*Meretrix meretrix*); analysis of Toll-like receptors in shrimp *Penaeus monodon* in response to *V. harveyi* infection; and identification of fishes by DNA barcoding.

Fish species belonging to the genus *Nempiterus* (Thread fin breams), *Sardinella* (sardines), *Coilia* (anchovies), *Cyanoglossus* (soles) and *Synaptura* sp prevalent along Mangaluru coast were identified using cytochrome oxidase I and 16S RNA genes of mitochondrial DNA in fish phylogenetics. Universal primers as well those designed by us were used in amplifying the COI and the 16s rRNA genes, the products which was sequenced and subjected to bioinformatics analysis.

Title: All India Coordinated Research project on Post-Harvest Technology

Fish processing waste was procured from Karnataka Fisheries Development Corporation Ltd. off Mangaluru city. The proximate composition such as crude fat, crude protein, moisture and ash contents of the collected fish wastes was analyzed according to AOAC 2000. Around 9.13 kg of fish wastes was procured washed with potable water and weighed. The resultant product silage was stored in plastic container until completely liquefied and stirred thoroughly at frequent intervals (4 hrs. once). Silage was prepared, dried with crushed corn (maize) in the ratio 85:15. Poultry feed were formulated using silage including other ingredients was 45 kg.



“Developed Gender Friendly Refrigerated Fish Vending and Display Unit using Solar Energy”: The fabricators and refrigeration engineer had visited the centre to find out a suitable modality to fix the refrigeration system in the existing unit. The unit dimension was measured to work out the capacity of compressor required. At present the unit is fitted with refrigeration system with compressor THK2390, TECUMSAE with a refrigerant 134A.

Title: Development of Artificial Reefs in inshore waters to enhance the marine fish stock

Artificial reefs which are considered the most appropriate for rebuilding fishery resources in the shallow waters. Installation of artificial reef structure in the inshore off Uppunda, Udupi dist is protecting the interest of artisanal fisheries and fishermen and promoting environment friendly fishing. Artificial reef structure would form the permanent fishing ground without the threat of exploitation by the mechanized fishery sector. In addition fishermen in the project area are getting benefits to improve their living standards as they are assured of their traditional activities and regular income.

INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU

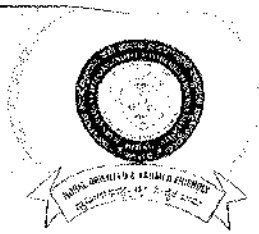
Title: All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance:

Objectives:

- a) To develop computer based animal disease database.
- b) To organize a National networking program on monitoring and surveillance of livestock diseases.
- c) To develop strategies for livestock health coverage practices at State / Regional / National levels.
- d) Human resource development through training in disease diagnosis / investigation adopting modern methodologies.

Details of the Outbreaks, Attacks and Deaths due to Notifiable disease in the State during 2015-16

Sl. No.	Disease	Outbreaks	Attacks	Deaths
1	Anthrax	37	216	216
2	Blackquarter	102	466	184
3	Haemorrhagic Septicemia	53	1648	516
4	Enterotoxaemia	48	1889	668
5	Foot and Mouth Disease	56	802	22
6	Peste des Petits Ruminants	30	3647	757
7	Sheep and Goat pox	28	914	305
8	Blue tongue	56	120529	14168
9	Rabies	4	14	14
10	Classical Swine Fever	4	118	25
11	Mycoplasma Infection	8	150	137
12	Brucellosis	1	3	0
	Total	427	130396	17012



Title: All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease.

Objectives:

- 1) To conduct systematic epidemiological studies on Foot and Mouth disease in Karnataka and to assess the incidence in relation to
 - a) Population profile.
 - b) Agro-Geo- Climatic distribution.
 - c) Occurrence of different types & sub types virus.
 - d) Duration & dynamics of outbreaks, and
 - e) Susceptibility & economic losses.
- 2) To assess the role of various factors associated with origin, course & development of the outbreaks of the disease.
- 3) To monitor the incidence of FMD in well-organized farms where regular vaccination is undertaken & to collect, compile & analyze the data of such organized farms to evaluate the efficacy of the vaccines and the factors associated with the perpetuation of FMD virus in the region.
- 4) To apprise the authorities of the state Animal Husbandry Department, Field veterinarians and livestock owners concerning the disease situation and suggest prophylactic programmes and strategies for the control of the disease.
- 5) To carryout Seromonitoring of FMD Control Programme for the state of Karnataka.

Progress made so far:

PROGRESS REPORT OF FOOT AND MOUTH DISEASE BENGALURU REGIONAL CENTRE DURING THE PERIOD APRIL 2015-MARCH 2016

	No of out - breaks	Virus identified during outbreaks	No. of clinical samples processed	Virus type identified				No. of pre/post & Diva vaccinal sera samples processed	Total no of samples processed
				O	A	Asia 1	VNR		
Apr-15	2	O, A	3	1	1	-	-	1042	1045
May-15	1	O	1	1	-	-	-	1000	1001
June-15	1	O	1	1	-	-	3	5999	6000
July-15	5	O	13	5	-	-	8	13	26
Aug-15	5	O	8	5	-	-	14	788	796
Sept-15	1	O	1	1	-	-	6	6249	6250
Oct-15	3	O	10	3	-	-	-	6016	6026
Nov-15	8	O	19	8	-	-	-	8	27
Dec-15	5	O	15	5	-	-	09	20	35
Jan-16	7	O	26	7	-	-	15	2024	2050
Feb-16	8	O	15	8	-	-	11	22	37
Mar-16	2	O	2	2	-	-	1	3	5
Grand Total	48	-	114	47	01	-	67	23184	23298



Title: Southern Regional Disease Diagnostic Laboratory

Objectives:

1. To serve as Regional Referral Laboratory for economically important livestock diseases (bacterial, viral, parasitic etc.), any drug/pesticide residue & toxicities by providing diagnostic services (both primary and confirmatory) to the states of the region.
2. To maintain a data bank on the epidemiology of the economically important diseases of the region and circulate to all the States on a periodic basis.
3. Be responsible to collect and transmit all isolates of viral, bacterial and parasitic agents to the National Repository at National Reference Laboratory.
4. To follow the approved standard reagents and techniques for generation of the diagnostic results.
5. To train scientists/officers from the State Diagnostic Laboratories of the region in the state of the art technology for diagnosis of animal diseases and provide consultancy and expert services to the States of the region.
6. To undertake identified special programs for disease surveillance/diagnosis as per the direction of Government of India from time to time in view of its epidemiological significance and importance etc., Bovine Spongiform Encephalopathy (BSE), Scrapie, Contagious Equine Metritis (CEM), Highly Pathogenic Avian Influenza etc.
7. Any data generated by the RDDDL could be published only after prior permission from DAHD.

Progress made so far :

During the year under report April 2015 to March 2016.

- 2483 samples were analyzed at Diagnostic Pathology.
- 2398 samples were analyzed at Diagnostic Parasitology.
- 3216 samples were analyzed at Diagnostic Bacteriology and Mycology
- 24908 samples were analyzed at Diagnostic Virology.
- 19220 samples were analyzed at Sero epidemiology
- 596 samples were analyzed at Biochemistry and Toxicology

A total of 52,821 samples were analyzed at SRDDL in different sections.



STD Screening during 2015-16

Sl. No.	Scientists Involved	Date & Place	No. of Animals	Disease suspected
1.	Dr. Venkatesha M D Dr. Lohith T S Dr. Rashmi S	04-01-2016 to 07-01-2016 DLF, Hosur, Tamil Nadu	84	STD Screening
2.	Dr. Shankar B P Dr. Sreevatsava V	19-01-2016 to 20-01-2016 KLDB, Kolthupuzha, Kerala	40	STD Screening
3.	Dr. Lohith T S	21-03-2016 to 24-02-2016 DLF, Ooty, Tamil Nadu	75	STD Screening
4.	Dr. Sudharani R Dr. Rashmi S	21-03-2016 to 24-02-2016 NJF, Ooty, Tamil Nadu	109	STD Screening
5.	Dr. Sudharani R Dr. Rashmi S	28-03-2016 to 31-03-2016 FSBS, Eachenkottai, Tamil Nadu	145	STD Screening
6.	Dr. Lohith T S Dr. Chandrashekhara N	28-03-2016 to 31-03-2016 FSB, Nandyala, AP	71	STD Screening
7.	Dr. Shivaraj M	28-03-2016 to 31-03-2016 SSCC, Dharwad	124	STD Screening
8.	Dr. Shankar B P Dr. Ranganath S	28-03-2016 to 31-03-2016 KLDB, Dhoni, Kerala	110	STD Screening
9.	Dr. Shivaraj M Dr. Rashmi S	03-02-2016 to 06-02-2016 NSS, Hesseraghatta, Karnataka	140	STD Screening
10.	Dr. Sudharani R Dr. Rashmi S	16-02-2016 to 19-01-2016 FSBS, Visakapatnam, Andra Pradesh	79	STD Screening
11.	Dr. Shankar B P Dr. Sumanth	22-02-2016 to 25-02-2016 KLDB, Mattupatty, Kerala	150	STD Screening
12.	Dr. Lohith T S Dr. Chandrashekhara N	23-02-2016 to 26-02-2016 FSBS, Banavasi, Andra Pradesh	87	STD Screening



LIVESTOCK RESEARCH & INFORMATION CENTER (SHEEP), NAGAMANGALA

Title: Mega Sheep Seed Project (Mandya Sheep)

- Updating of flock status in the home tract area of Mandya sheep.
- Strengthened conservation of Mandya sheep in the form of *in-situ* conservation by establishing elite Mandya sheep seed flock as nucleus breeding unit at LRIC(S), Nagamangala, KVAFSU, Mandya (Dst), Karnataka.
- Identified the elite Mandya sheep flocks under the project operational area and registered 576 farmers under six working centres.
- Distributed 233 elite breeding Rams to the identified 240 farmers to cover 8306 breedable ewes for propagation and genetic improvement of Mandya sheep.
- Has been recording the production and reproductive performance of the farm flock.
- Has been recording the production performance of the progenies of the distributed Rams in all the working centres.
- To produce 50 breeding rams every year capacity building measures have been created to hold the capacity strength of 1000 animals at LRIC(S), Nagamangala.
- Awareness programs to beneficiaries regarding silage making, straw enrichment and proper utilization of fodder and other feed resources were organized at LRIC(S), Nagamangala and operational areas.
- Encouraging the progressive farmers regarding breed conservation.
- Oestrus synchronization and artificial insemination was carried out in the flocks maintained at farm and field.

LIVESTOCK RESEARCH & INFORMATION CENTER (A), KONEHALLY, TIPTUR

Title: Establishment of Amrithmahal Cattle Breeding Station at Livestock Research and Information Centre (Amrithmahal), Konehalli, Tiptur”

Milk Yield and Its Composition: The Amrithmahal cows were non cooperative to assess their milk yield by direct measurements. Hence, a new method of assessment of milk yield was developed at the station “*Indirect method by weightiest of calf before and after suckling*”. Here in this method the calves were weighed before and after suckling milk from cows twice a day - once in morning and evening. The difference in weight of calves was added up to obtain the milk yield of the cows per day. This was further projected as milk yield per lactation (kg/d). The composition of the milk was assessed using milk - O - tester. The milk yield (kg/d) ranged 1.6 to 2.4 kg.

Adaptiveness of the Amrithmahal cattle for humans (*Behavioral study*): The study was conducted to assess the adaptiveness of the Amrithmahal cattle for the humans / working labour. Here in out of 25 cows, 19 cows gradually were adopted for the working staff for weighing, handling of cows and calves, during treatment and other routine procedures. Any way they were not cooperative for assessment of milk yield body weight measurement etc. They followed stereo typed methods of herd behavior, tying at mangers, grazing.

Hematological analysis: The blood and serum of the all the animals were subjected for laboratory analysis for the following parameters: Hb, WBC, RBC, Platelets, Neutrophils, Lymphocytes, Eosinophils, Monocytes, SGPT, SGOT, BUN, Creatinine, Calcium, Phosphorus, Total Protein, Albumin, incidence of Johne's disease by indirect ELISA, FMD by LBPELISA.



The Haemoglobin (g%) values ranged from 9.1 to 12.3; WBC ($X/10^3 \mu\text{l}$) ranged from 3.9 to 19.1; RBC ($X/10^6 \mu\text{l}$) ranged from 5.34 to 10.53; Platelet count ($X/10^5 \mu\text{l}$) ranged from 64 to 419; Neutrophils (%) ranged from 20 to 78; Lymphocytes (%) ranged from 10 to 71; Eosinophils (%) values ranged from 03 to 20; Monocytes (%) values ranged from 01 to 03.

Results obtained by Serum analysis of the Amrithmahal cattle revealed that SGPT (U/L), a test to assess normal functioning of liver, ranged from 11.3 to 33.7; SGOT (U/L) ranged from 61.88 to 97.47; BUN (mg/dl) values have varied from 19.5 to 29.4; Creatinine (mg/dl) which is the indicator of kidney function test fell within range of 0.62 to 1.91.

Amrithmahal cattle were evaluated for Mineral status in terms of calcium (mg/dl) ranging from 7.02 to 10.9; Phosphorus (mg/dl) ranging from 5.40 to 9.17.

Nutritional status as observed by Serum analysis revealed that Total Protein (g/dl) ranging from 5.32 to 7.36; Albumin (g/dl) ranging from 2.22 to 3.69. Globulin by deductive calculation (Globulin=Total Protein-Albumin) ranged from 3.1 to 3.67 and the ratio of Albumin:Globulin ranged from 1.005 to 1.39.

The haematological and biochemical values of all the animals fell in normal range showing that the Amrithmahal stock at LRIC(A) was healthy, nutritionally sound and disease free.

The body scores of the animals ranged from 6.5 to 7.4 in a scale from 0 to 8 body scoring system.

Morphometric measurements: The animals were measured for heart girth, body length, height at withers, tail length, ear length, parietal girth, face length, horn length and other relevant body measurements every month. These were compared with the direct measurements of body weight to find the correlation.

Morphometric measurements of cows (cm, minimum to maximum): Body length ranged from 96 to 119; height at withers ranged from 102 to 118; Chest girth varied from 115 to 143; Parietal girth observed within range of 118 to 136; face length 37 to 45; PL (forehead) 12 to 16; Horn length within range of 14 to 24; Ear length ranging from 15 to 19 and tail length ranging from 57 to 78.

Morphometric measurements of Bulls (cm, minimum to maximum): Body length ranged from 109 to 110; height at withers ranged from 115 to 122; Chest girth varied from 131 to 142; Parietal girth observed within range of 138 to 149; face length 42 to 43; PL (forehead) 15 to 15; Horn length within range of 16 to 17; Ear length ranging from 20 to 21 and tail length ranging from 63 to 74. The morphometric observations have shown growing prominence of the bulls over cows in terms of Chest girth, body length, height at withers, horn length with age and approachment of maturity.

The parameters about age at maturity, age at mating, age at first calving, inter calving period, drafting capacity of bulls w.r.t. weight of bullock cart, drafting capacity of bulls w.r.t. working in field, drafting capacity of bulls w.r.t. hours of work, lactation length, number of services/conception and other relevant parameters are planned for tabulation.

Period vaccination, deworming, treatment for ectoparasites were followed to keep the animals in healthy condition.



Title: "Evaluation of spineless cactus as green fodder on the performance of sheep"

1. To assess the performance of sheep fed on spineless cactus as green fodder.
2. To study the Production Performance traits of sheep such as body weight and body Measurements
3. To study cultivation practices of spineless cactus

CANINE RESEARCH & INFORMATION CENTER, TIMMAPUR, BAGALKOT

Title: Livelihood Security through Mudhol Hound Rearing

1. The distributed pups to 117 beneficiaries (130 male + 166 female = 296 puppies) along with Puppy food and calcium and vitamins supplements.
2. 100 dogs have been micro-chipped and registered with Kennel Club of India in Collaboration Mysore Kennel Club Bangalore and Society for Indian Breeds of Dogs, Bengaluru.
3. The beneficiaries are being educated regarding the Care and Management of puppies, Pregnant animals and whelped animals, etc

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

Title: Establishment of fish seed, production cum demonstration farms for extension activities

At present there are no Fisheries Scientists both at LRIC, Hallikhed and BRIC, Dornalli, it is will be difficult to achieve the objectives of the project and serve the farming community. The authorities of the university are requested to post Fisheries Scientists to these centres in the larger interest of fish farming community of northern Karnataka.

Title: Monitoring water quality of few selected lakes (15 lakes) in Bengaluru city

1. 15 selected lakes in Bengaluru city are being monitored for water quality. Water quality parameters monitored: Water temperature, pH, DO, BOD, CO₂, Nitrate, Phosphate, Lead, Mercury, *E. coli* and TPC
2. Water temperature exhibited a significant difference between the seasons and lakes.
3. pH exhibited a significant difference between the seasons and moderate difference between the lakes.
4. Dissolved Oxygen, BOD and CO₂ exhibited highly significant difference between the seasons and lakes.
5. Nitrate nitrogen exhibited highly significant difference between the seasons and lakes and was invariably less during July.
6. Phosphate phosphorous exhibited highly significant difference between the seasons and lakes. In few cases, it was found to be high during July and December.
7. Lead concentration exhibited highly significant difference between the seasons and lakes and it was invariably high during July and December.
8. Mercury exhibited highly significant difference between the seasons and lakes and was found to be high in concentration during March.
9. *E. Coli* and *Total plate counts* exhibited highly significant difference between the seasons and lakes and was more during march.



Title: Survey on status of fish production, supply and demand, processing industries and management strategies in Karnataka state

Software has been developed to document various fisheries activities in Karnataka State. Total number of districts surveyed: 11

Fisheries activities covered: Marine capture and culture fisheries, inland culture fisheries and brackish water capture.

Marine capture fisheries: Dakshina Kannada, Udupi and Uttara Kannada

Gender wise boat ownership , fuel tank capacity, type of crafts and gears, length of crafts, Hp of the engines, fishing type(day and night), fish holder size and type, holder capacity, mode of sale of fish, logistics like drinking water facility, ice availability, fishermen resting place, auction platforms. Boat parking space and net mending sheds etc are elucidated.

Inland culture fisheries: Raichur, Ballari, Davangere, Chickballapur, Shivamogga, Chamarajanagar, Mandya and Mysuru.

Gender wise involvement, size of ponds, area of fish ponds, depth of ponds, source of water, source of seeds, size of fish seed at stocking, species cultured, stocking density, cost of seed, feeds used, mode of feeding, fish production, fish pond preparations, fish disease control, type of diseases, fish production cost, transportation of seed, mode of sale etc. is documented.

Software has been developed for recording fisheries activities in the entire Karnataka state including marine, brackish and fresh waters.

Fish culture demonstrations in Short duration watersheds in Chamarajnar district

- The base line survey for all the water bodies in different taluks of Chamarajnar district has been completed. New resources brought to seed rearing and fish production
- Enhanced Fish seed survival rate and brought additional seed rearing area
- Promoted new approaches for fish seed rearing viz., storage tanks, rainwater harvesting structures by using hapa/open rearing method
- Brought in new resources viz., small water bodies-farm ponds, water storage structures, rain water harvesting structures of Water sheds to the folds of fish farming.
- Enhanced resource use efficiency and productivity enhancement in seasonal tanks and other small water bodies.
- Empowered farmers on activities of fisheries and aquaculture
- Facilitated both horizontal spread of fisheries and aquaculture activity
- Intensification at farm and farming levels
- Better utilization of new resources and agricultural waste as input for the activity
- Identified Amur common carp better performance in small water bodies both in the two and composite species culture method
- Additional income source without affecting the regular activity of the formers
- Harvest is still in progress



FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

Title: Development of Brood Bank for Amur Common Carp

- A total of 80 individual pair matings were conducted in a single batch during March, 2016 of which, spawning was successful in 61 pairs.
- Equal number of spawn obtained from all the successful breeding pairs was collected and being reared at FRIC, Hesaraghatta
- On station under polyculture demonstration was initiated to evaluate the performance of Amur with Catla, Rohu and Local common carp at FRIC(I), Hesaraghatta.
- The growth performances of Amur carp, Catla, Rohu and Local common carp under polyculture were $116.48 \pm 3.45g$, 41.80 ± 3.02 , 51.21 ± 4.62 & $70.78 \pm 4.31g$ at FRIC, Hesaraghatta respectively during 3 months period.
- The breeder seed of Amur common carp was also supplied to Chief Executive officer – West Bengal / Dep. Of Fisheries - Assam / Additional Chief Executive Officer-Punjab / Assistant Director of Fisheries – Kerala / Research Officer of Fisheries – Madhya Pradesh / District Fisheries Officer - Jharkhand
- Total seed supplied to farmers in the state 82,000 No.s to 100 Farmers

Title: Sex manipulation in common carp and its hybrid using Indian Major Carp, Rohu: Genetic and Molecular Endocrinological approaches

- Experiment to produce monosex (all female) population initiated using fry produced at FRIC, Hesaraghatta
- 40 day old fry (equal size) of both Amur & local strain were used
- The experiment was conducted in 1 M³ FRP tanks with Aeration facility.
- 100 fry/tank was stocked
- 17 β - estradiol was used @ 25 & 50ppm
- The hormone was administered orally through diet incorporated with hormone
- The experiment terminated & post hormone treatment rearing in progress
- The sex will be assessed using acetocarmine test
- The samples are sent to collaborator for assessing sex using molecular techniques (University of Hyderabad) and for related analysis.

Title: Quality fish seed production of important cultivable fish seed

- Selected healthy Indian Major carps and Maintaining in broodstock pond.
- Supplementing special feed for brooders and maintaining water quality

Title: Developed technology for fish culture in water harvesting structures in watersheds funded by Karnataka Watershed Development Department under Sujala III –Davanagere District

On Farm fisheries demonstration of Davanageri district has identified for the conduct of on farm Fish seed rearing, Composite fish culture and integrated fish demonstration in Harppanahalli and Jagular Taluk at Davanagere district.



Seed rearing demonstration 1 :

Rearing of Rohu Fry up to fingerling stage was carried out for a period of 3 months. Total 19890 fry seeds were stocked in to farm pond. Total 11934 (66.0%) fingerlings were harvested at the end and these were marketed @ Rs 1/FL and farmer has got net income of Rs 6605.

Seed rearing demonstration 2 :

Rearing of Tilapia Fry up to fingerling stage was carried out for a period of 3 months. Total 4000 (59.52%) fingerlings were harvested at the end and these were marketed @ Rs 1/FL and farmer has got net income of Rs 1603.

Seed rearing demonstration 3 :

Rearing of Catla and Rohu Fry up to fingerling stage was carried out for a period of 3 months. Total 2700 fingerlings were harvested at the end which includes Catla 1700 (66.14%) and Rohu 1000 (65.14%). These 2700 fingerlings were marketed @ Rs 1/FL and farmer has got net income of Rs 1298.

Fish culture demonstration 4:

2 species culture of Rohu and Common Carp was carried out for a period of 6 months. Total 63 fishes were harvested at the end which includes Common carp 30 and 450g (74.5%) and Rohu 25 and 175g (75.75%) and net fish production of 21.00kg. Fishes were marketed @ Rs 150/kg and farmer has got net income of Rs 3135.

Fish culture demonstration 5:

2 species culture of Rohu and Common Carp was carried out for a period of 6 months. Total 111 fishes were harvested at the end which includes Common carp 62 and 475g (77.5%) and Rohu 49 and 180g (70.0%) and net fish production of 38.00kg. Fishes were marketed @ Rs 150/kg and farmer has got income of Rs. 5694.

Fish culture demonstration 6:

More than 2 species culture of Catla, Rohu and Amur was carried out for a period of 6 months. Total 64 fishes were harvested at the end which includes Amur-35 and 615g (70.0%), Catla -12 and 530g (60.0%) and Rohu 17 and 195g (57.0%) and net fish production of 31.00 kg. Fishes were marketed @ Rs 150/kg and farmer has got net income of Rs 5700.

Fish culture demonstration 7:

More than 2 species culture of Catla, Rohu and Amur was carried out for a period of 6 months. Total 101 fishes were harvested at the end which includes Amur-52 and 925g (71.23%), Catla -20 and 525g (71.42%) and Rohu 29 and 255g (67.44%) and net fish production of 65.21kg. Fishes were marketed @ Rs 150/kg and farmer has got income of Rs. 9782.

Fish culture demonstration 8:

More than 2 species culture of Catla, Rohu, Amur and Silver Carp was carried out for a period of 6 months. Total 98 fishes were harvested at the end which includes Amur-41 and 540g (70.68%), Catla -17 and 435g (58.62%), Silver carp-7 and 350g (50%) and Rohu 33 and 185g (76.74%) and net fish production of 38.00 kg. Fishes were marketed @ Rs 150/kg and farmer has got income of Rs 5759.

Fish culture demonstration 9:

More than 2 species culture of Catla, Rohu and Common carp was carried out for a period of 6 months. Total 244 fishes were harvested at the end which includes common carp-52 and 425g (65.0%), Catla -124



and 560g (62.0%) and Rohu 68 and 170g (56.66%) and net fish production of 100 kg. Fishes were marketed @ Rs 150/kg and farmer has got income of Rs 15000.

Integrated fish culture demonstraton 10:

More than 2 species culture of Catla, Rohu and Amur was carried out for a period of 6 months. Total 115 fishes were harvested at the end which includes Amur -57 and 575g (69.51%), Catla -22 and 485g (75.0%) and Rohu 36 and 215g (72.0%) and net fish production of 50.00 kg. Fishes were marketed @ Rs 150/kg and farmer has got net income of Rs. 9420.

FISHERIES RESEARCH & INFORMATION CENTER, ANKOLA

Title: All India Network Project on Mariculture

- Brood stock development and hatchery technology of sand whiting (*Sillago Sp.*) and milk fish (*Chanos chanos*)
- Fish seed resource survey and establishment of fish seed bank along Uttara Kannada, Udupi and Dakshina Kannada Districts.
- Participatory cage farming of prioritized fish species.

Title: Dial feeding periodicity of Pearl Spot, *Etroplus suratensis* (Bloch) in Ankola (Bela) waters

- To study the feeding ecology in order to minimize the wastage of feed and optimize the growth.
- Utilization of vast brackish water area of Karwar coast for pearl spot culture and to encourage the individual farmers for the culture of pearl spot.

Title: To take up as an attempt to culture of Brackish water fishes (Mullet) alternative to shrimp farming

Growth and survival of Brackish water fishes (mullet) in shrimp ponds (farm ponds).

FISHERIES RESEARCH & INFORMATION CENTER, BHUTNAL, VIJAYAPURA

Title: KWDP- II (Sujala III) Project on support livestock and extension activities

- Utilization of seasonal water/rain fed bodies for aquaculture and fisheries under micro water shed areas to increase the fish production and nutritional / livelihood security of the rural community.
- Identify various options for development of fish farming technologies based on local needs and priority of farmers.
- To asses the performance of different fish species (IMC and exotic carps) at different stocking densities.

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

Title: Livestock Support & Extension Activities

Awareness has been created among farmers about importance of chaffing fodder and effective



utilization of fodder and fodder enrichment. In 3 villages 20 farmers have adopted chaffing fodder into smaller particle size resulting in decrease in fodder wastage. Fodder nurseries have been established in two villages with 10 varieties of fodder crops. This has motivated 30 farmers in the same and surrounding villages to adopt cultivation of growing green fodder for their animals. Awareness among farmers is created about quality of milk with reference to fat and SNF content and tackling problems associated with low SNF incidences. Perceived needs and problems of the Yelishirur Watershed with reference to animal husbandry were obtained for preparation of CLDP. Awareness among farmers is created about importance of balanced ration to dairy animals.

3. Research Collaborations / MoUs:

List of MOU's signed by the University at National Level

#	Institutions involved in MOU	Date of MOU	Details Regarding MOU	Remarks
COLLEGE OF FISHERIES, MANGALURU				
1	KVAFSU, Bidar and CMFRI, Kochi	August, 2015	To develop disseminate mariculture technologies along the Indian coast Under the All India Network Project on Mariculture	The Project is operative at FRIC (Marine), Ankola.

4. Patents: Nil

5. Technology Developed:

VETERINARY COLLEGE, BENGALURU

1. The novel technique of preserving the biological specimens by Plastination method is developed by utilizing Environmental Pollutants for the first time in the country by Department of Veterinary Anatomy and Histology, Veterinary College, Bengaluru.
2. LAMP- PCR for detection of Orf virus in scab samples of affected sheep was developed by Department of Veterinary Microbiology, Veterinary College, Bengaluru.

COLLEGE OF FISHERIES, MANGALURU

1. Gelatin from fresh water fish processing waste
2. Fish mince – cereal based extruded products
3. Technology for fish sausage from fresh water cat fish
4. Fish protein hydrolysate as health food
5. Women Friendly Fish Vending and Display Unit
6. Fish Ham and Patty
7. Smoked Fish Sausage Using Natural Preservatives
8. Fish snacks using hybrid solar biomass powered dryer



6) (a) Awards/Recognitions

#	Name of the Scientist	Award	Year	Agency
VETERINARY COLLEGE, BENGALURU				
1	Department of Veterinary Anatomy and Histology	Centre for Innovative Science Education (CISE)	2015	VGST, DST, Government of Karnataka
2	Jamuna K.V. and Rajashailesha N.M.	Dr. K.L. Suri award & Medal for Best Poster Presentation	2015	XXX Annual Convention of Indian Association of Veterinary Anatomists & National Symposium, Kolkata.
3	Jamuna K.V. and Sunilkumar Patil	Late Shri L.O. Dhande Memorial Award	2015	XXX Annual Convention of Indian Association of Veterinary Anatomists & National Symposium, Kolkata.
4	R.V. Prasad, Jamuna K.V. and Rajani, C.V.	Best Paper Award	2015	XXX Annual Convention of Indian Association of Veterinary Anatomists & National Symposium, Kolkata.
5	Dr. Y B Rajeshwari	National Fellow of Livestock Production and Management	2016	ISAPM
6	Dr. Anand Devaranadagi, Dr. Y. B. Rajeshwari and Dr. Vivek M. Patil	Best Paper Award	2016	Alumini Association, SRS of ICAR – NDRI, Bengaluru, Karnataka.
7	Dr. Basavarajaiah, D.M.	Fellow of Royal Statistical Society	2015	Royal Statistical Society, UK, London
		Chartered Statistician	2015	Royal Statistical Society, UK, London
		Chartered Scientist	2015	UK Science council in collaboration with Royal Statistical Society, UK
		Fellow of London Mathematical Society	2015	London Mathematical Society
		Bharath Sikhs Rattan award	2015	Global Society for health and educational Growth (R), New Delhi
		Best Reviewer Award	2015	TJPRC, NASS rated journals and Research consultancy services, Chennai (USA based) www.tjprc.us



8	Kantharaju, M.K., Jagadeeswary, V. and Satyanarayan, K.	Best Presentation Award	2015	Indian Veterinary Extension Forum
9	Dr. V. Girish Kumar	Felicitation award for outstanding contribution in the field of Biochemistry and biotechnology	2016	Society of Veterinary Biochemists & Biotechnologists, India
10	Shilpa, M., Girish Kumar, V., Selvaraju, S., Parthipan, S. and Arangaswamy	Best Poster Award	2015	Indian Society for Study of Animal Reproduction (ISSAR)
11	Sunil Kumar, K.K., Sanganagouda Koppad., Nagaraj, B.N., Manjunath Reddy, Byregowda, S.M., Hemashree, P., Girish Kumar, V and Purushotham, K.M.	Best Paper Award	2016	Society of Veterinary Biochemists & Biotechnologists of India (SVBBI)
12	Rudrappa, S.M., Sanganagouda, K., Byregowda, S.M., Girish Kumar, V. and Madhusoodhan, J.R.	Best Poster Award	2016	Society of Veterinary Biochemists & Biotechnologists of India (SVBBI)
13	Mamatha, G.S., B.M.Chandranaiik, B.P. Shivashankar, R. Shruthi, M.S. Ashwini, R. Rajanna, G.C. Puttalakshamma and P.M.Thimmareddy	First Best Oral Presentation Award	2016	National Congress of Veterinary Parasitology
14	Chaitra K.Gowda, G.C. Puttalakshamma, Placid E.D'Souza, G.S. Mamatha, B.M. Chandranaiik and P.M.Thimmareddy	Third Best Oral Presentation Award	2016	National Congress of Veterinary Parasitology
15	M. Archana, Placid E.D'Souza and Jagadeesh Patil	Third Best Oral Presentation Award	2016	National Congress of Veterinary Parasitology
16	Kavitha Rani	Best Research Paper Award	2015	Annual conference of Indian Women Veterinarian Association
17	Nithinprabhu, K.*, S.Isloor, Veeresh, B.H., D.Rathnamma, S.Yathiraj, M.L.Satyanarayana, Placid D.Souza, Neelufur, M.S., Sharada, R. and S.Abdul Rahman *Ph.D. Scholar Veterinary Microbiology, Veterinary College, Bengaluru	Young Scientist Award for the topic on "Nucleoprotein Gene – Based Molecular Epidemiology of Rabies Virus and Development of Isothermal Nucleic Acid Amplification Assay for its decision	4-5 th July, 2015	17 th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Hyderabad



18	Neelufar, M.S. *, Isloor, S., Veeresh, B.H., Palaniappan, C., Sekhar, B., Rathnamma, D., Yathiraj, S., Chandranaik, B.M., Deepti, B.R., Vishal, B.N., Manjunath Reddy ad Abdul Rahman, S. *M.V.Sc. Scholar Veterinary Microbiology, Veterinary College, Bengaluru	Best Poster Award for the topic on "Standardization and Application of Rabies Virus Neutralizing Antibody Assay for Assessment of Vaccinal Efficacy in Dogs	4-5 th July, 2015	17 th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Hyderabad
19	Veeresh, B.H., Isloor, S., Wilfred Marrison, Nithin Prabhu, K., Yathiraj, S., Satyanarayana, M.L., Neelufar, M.S., Pramina, K.V., and Abdul Rahman, S.	Best Oral Presentation for the topic on "A Molecular Epidemiological Study Targeting the Glycoprotein Gene of Field Isolates of Animal Rabies Virus in India	4-5 th July, 2015	17 th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Hyderabad
20	K. Pramina, B. Veeresh, S. Isloor, D. Rathnamma, S. Yathiraj, M. Narayanswamy, R. Sharada, Y. Chaitra and N. R. Hegde	Bill and Melinda Gates Foundation award for young investigator from India and South East Asia	2-5 th March 2016	17 th Global level International Congress on Infectious Diseases Society for the Infectious Diseases at Hyderabad, India
VETERINARY COLLEGE, BIDAR				
1	Annapurna awate	Best poster award	2015	15 th annual conference of Indian association of woman veterinarians
2	Dr. N.A. Patil	Young Scientist Award	2016	Swadeshi Vijnana Andolana- Karnataka
3	Laxman Naik., R.Bhoyar., Vinay Tikare., Shrikant Kulkarni., M.chanda., V.R.Kasralikar and N.A.Patil. 2016.	Best poster presentation	2016	34 th Annual convention of Indian society for Veterinary medicine and National symposium on "Newer approaches in the diagnosis and management of Animal diseases for sustainable health and production" held at GADVASU, Ludhiana.
4	Dilipkumar	Young Scientist Award	2016	Swadeshi Vijnana Andolana- Karnataka



5	Vinay P Tikare	Certificate of excellence in reviewing” in recognition of outstanding contribution to quality of journal	2015	“International journal of livestock Research”
6	Patil and Madhukar NM, Vivek Kasaralikal, Paresh Sharma, NA Ravindra BG	Best Oral Paper Award – First Place	2016	Indian Society for Veterinary Medicine
7	Laxman Naik, Ravindra BG, Vinay T., Shrikant Kulkarni. Vivek Kasaralikal and NA Patil	Best Poster Presentation Award – First Place	2016	Indian Society for Veterinary Medicine
8	Ravindra BG, Shashidhar Ballari, Rajendra T, Harish Kulkarni, Shivmurthy, Vivek Kasaralikal, NA Patil and PK Patil,	Best Oral Presentation – Second Place	2016	Indian Society for Veterinary Medicine
9	Priyanka	Best Poster Presentation Award– Second Place	2016	Indian Society for Veterinary Medicine
10	Dr. Channappagouda Biradar	Budding Extensionist Award	2015	Society for Veterinary and AH Extension Education, Ludhiana
VETERINARY COLLEGE, SHIVAMOGGA				
1	Dr.Dhoolappa M.	“Poster-Walkway of Discovery” Award at 8 th Bangalore INDIA NANO- 2016, International Conference held from 3 rd to 5 th of March, 2016.	2016	Department of IT, BT and Science & Technology, Government of Karnataka under the guidance of Vision Group on Nanotechnology led by Bharat Ratna Prof. C.N.R. Rao, FRS and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR).
2	Kavitha Rani, B.	First Best Oral Presentation Award	2015	KNP College of Veterinary Science, Shirwal.
3	Kavitha Rani, B., Rathod, S.B., K.J. Ananda, S. Ganga Naik, C. Sunkad, Yashswi Naravi, Manjunatha, S.S. and Jayaramu, G.M.	“PARASHAREEYAM”	2015	Swadeshi Vijnana Andolana- Karnataka.



VETERINARY COLLEGE, HASSAN

1	Dr. M. S. Vasanth	Prof. RPS Tyagi Oration Award	2015	National Symposium of Indian society for Veterinary surgery held during September 1-3 rd 2015 at Srinagar, Jammu & Kashmir
2	Dr. M. S. Vasanth	Professional Excellence Award	2015	Lions Club International, Hassan on 23-11-15
3	Dr. Placid E. D'Souza	Third Best Oral Presentation award - Gastrointestinal parasitism in pigs from different managemental systems from Bengaluru and surrounding districts	2016	25 th National Congress of Veterinary Parasitology and National Symposium on "One health approach- Plausible solution for sustainable parasite control" held from 17 th to 19 th February, 2016 at Chennai
4	Dr. Placid E. D'Souza	Third Best Oral Presentation award - Exposition of entomopathogenic nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) to poultry manure: a cause for survival and reproduction	2016	25 th National Congress of Veterinary Parasitology and National Symposium on "One health approach- Plausible solution for sustainable parasite control" held from 17 th to 19 th February, 2016 at Chennai
5	Dr. Rajshailesha, N.M.	Best Poster Award	2015	Indian Association of Veterinary Anatomists (IAVA)
6	Dr. S. Wilfred Ruban	Best Poster Presentation award – First report of mec C carrying Methicillium Resistant S. aureus in retail meat in Chennai	2016	2 nd Convention of AMST and National Seminar on "Food: Safety, health and Environment" held from 25-26 th Feb 2016 at Madras Veterinary College, Chennai

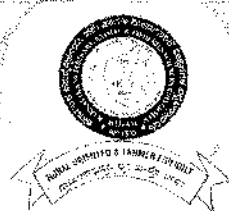


COLLEGE OF FISHERIES, MANGALURU

1	Dr. H. Shivananda Murthy	Nominated Member of the Karnataka Biodiversity Board for the year	2015	Government of Karnataka
2	Dr. H. Shivananda Murthy	Keynote speaker and Chairman of Technical Session in the 'International Conference on Fisheries & Aquaculture-2015' Colombo, Sri Lanka, 24-27, August, 2015	2015	World Aquaculture Society & TIIK, Sri Lanka
3	Dr. H. Shivananda Murthy	Invited Keynote speaker and Chairman of Technical Session in the 'International Conference on Blue Economy- Way forward	2016	Kerala University of Fisheries and Ocean Studies, Cochin, Kerala
4	Dr. H. Shivananda Murthy	Advisor & Member of the Selection Committee of the ASRB	2015	Agriculture Scientists Recruitment Board, New Delhi
5	Dr. H. Shivananda Murthy	As Member of the Board of Studies in Aquaculture & Fisheries	2015	Kerala University of Fisheries & Ocean Studies
6	Dr. Ganapathi Naik, M	Outstanding Faculty in Fisheries Science	2015	Venus International Foundation, Chennai
7	Dr. Gangadhara Gowda	Rajiv Gandhi Gold Medal Award - Research and Social Accomplishment	2015	Global Economic Progress and Research Association, New Delhi
8	Dr. S K Girisha	Local Competent Authorities for Health Certification of Ornamental Fish	2016	MPEDA
9	Dr. T Suresh	Local Competent Authorities for Health Certification of Ornamental Fish	2016	MPEDA



10	Dr. S. Benakappa	Best Poster Presentation Award	2016	Environment & Social Welfare Society, Khajuraho-India
LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED				
1	Dr. Vivek M. Patil	First Prize in Livestock Exhibition (Deoni category) held at Agriculture, Horticulture, Livestock and Fisheries Mela 2015, Bidar, 11-13 Dec, 2015.	2015	UAS Raichur, UHS Bagalkot, KVAFSU Bidar
2	Dr. Vivek M. Patil	Third Prize in Oral Paper Presentation at National Seminar on "Quality – A Tool for Value Addition of Dairy Foods", Bengaluru, 23-24 Jan, 2016.	2016	Alumni Association, NDRI-SRS, Bengaluru
LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA				
1	Dr. Prabhu, T. M.	Best Research Paper	2015-16	Indian Journal of Dairy and Biosciences, NDRI, Bengaluru.
2	Dr. Manjunatha, S. S.	Best Paper Presentation Award	2015	National Women's Science Congress
CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT				
1	Dr. Mahesh S Dodamani,	Breed Saviour Award	2015-16	KamalNayan Jammalal Bajaj Foundation
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU				
1	Dr. K.N. Prabhudeva	Member, QRT, CMFRI, Kochi	2015	ICAR, New Delhi
2	Dr. K.N. Prabhudeva	Certificate of merit	2016	KVAFSU, Bidar
3	N. Chethan, R. S. Nagendra Babu, K. B. Rajanna, K. N. Prabhudeva and H. R. V. Reddy	Best research article for the year 2015	2015	<i>Aquaculture Times</i> , Hyderabad



(b) Research Incentives

#	Name & Designation of the P.I	Title of the Project	Funding Agency & Status	Date of Sanction	Duration	Cost of Project (Rs. in Lakhs)
I) Project(s) worth of Rs. 100.00 lakhs & above (Rs. 15000 + Certificate of Merit to PI)						
1	Dr. H. D. Narayana Swamy – PI * Prof. & Head Dept. of Pathology Veterinary College Hebbal, Bengaluru	Animal Disease Registry and Tissue Bank	ICAR	2011	5 Years	590.92
2	Dr. M. D. Venkatesh - PI * Sci-4, IAH&VB Bengaluru	Screening for genetic disorders in breeding bulls in Karnataka state	KLDA	2014	5 Years	235.00
II) Project(s) worth of Rs. 50.00 lakhs & up to Rs. 100.00 lakhs (Rs. 10000 + Certificate of Merit to PI)						
1	-	-	-	-	-	-
III) Project(s) worth of Rs. 25.00 lakhs and up to Rs. 50.00 lakhs (for PIs only) (Rs. 5000 + Certificate of Merit to PI)						
1	Dr. K.M. Shankar Dean Fisheries College Mangaluru	FIST Programme 2013-14 department of Pre-Clinical sciences	DST	2013	5 Years	45.50
2	Dr. Mridula Rajesh – PI * Asst. Professor Dept. of AEM Fisheries College Mangalore	Sustaining livelihood security in rural women of Dakshina Kannada integrated livestock and fisheries production	DBT	2014	3 Years	41.82
IV) Project(s) worth of Rs. 5.00 lakhs & up to Rs. 25.00 lakhs (Certificate of Merit to PI)						
1	Dr. K. N. Prabhudeva –PI Prof. & Head FRIC (I), Hebbal	Establishment of fish seed, production cum demonstration farms for extension activities	NFDB	2014	2 Years	23.94
2	Dr. Suresh B. N – PI, Asst. Prof. Dept. of JLFC veterinary College Hassan	Utilization of maize cob shank and its sheath as fodder source for dairy animals	NABARD	2014	2 Years	9.45
3	Dr. B. M. Chandra Naik –PI, Sci-II IAH & VB Bengaluru	Screening of elephants for tuberculin and PCR tests	MoE&F	2014	1 Year	6.53



4	Dr. Manjappa . N, Asst. Prof. FRIC, Hessarghatta	Development and adaptation practices (BMP) of shrimp farming to maximize benefits to small stake holders for improved livelihood	VGST	2013	1 Year	5.00
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7) Important decisions taken during Research Council Meeting

ACTION TAKEN REPORT ON PROCEEDING OF THE 10TH RESEARCH COUNCIL MEETING HELD ON 25.03.2015 AT KVAFSU, BIDAR

Research Highlights and research programme (Extramural Funding)

The Director of Research presented the action taken report on the item discussed in the 10th Research Council meeting the same was Approved and adopted.

- A. During 2015-16, 115 projects were operated with total budget of 1026.60 Lakhs.
- B. A committee was constituted for screening, evaluation and monitoring of Research Schemes at College level with heads of Division as Chairmen
(Order issued)
- C. 40% of the Institutional charges collected from the Research grants will be provided to PIs (Order issued)

B. University Funded Projects :-

A. Animal Sciences and Poultry Sciences.

During 2015-16 Twenty one (21) Staff Research projects to the tune of Rs. 7.20 lakhs were approved.

B. Pre and Para Clinical Sciences.

Sixteen (16) projects worth of 7.40 Lakhs were approved.

C. Clinical Sciences

Eighteen (18) projects to the tune of Rs. 6.80 Lakhs were approved.

D. Dairy Science

Eight (08) project of Rs. 3.05 were approved.

E. Fishery Science

Only one project 2015-16 worth of Rs. 0.50 lakhs were approved



III. EXTENSION

The University is striving hard to improve the socio-economic conditions of the farming community through its extension education activities. In order to achieve this, the university is organizing training programmes, demonstrations, farmer-scientist interaction sessions, field visits, farm melas etc, through its constituent colleges and research stations spread across the state.

1. Conferences/Trainings/Workshops/Seminars organized

i) International Level

a) Workshops

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	25.04.2015	Bengaluru	One Day Workshop on Provisions of Acts and Rules related to Animal Welfare to commemorate Basava Jayanti and World Veterinary Day	VCH and KARUNA,
2	06.07.2016	Bengaluru	World Zoonosis Day	VCH
3	15.02.2016 to 16.02.2016	VCH	International Workshop on "Culture of Responsibility"	VPH&E, VCH in collaboration with American Society for Microbiology (ASM), Society for Biosafety, India
4	28.11.2015	VCH	Workshop on toxicopathology and IBTB board exam	STPI and Dept. of Veterinary Pathology, VCH
5	27.07.2015 to 31.07.2015	VPT, VCH	International Workshop on Comprehensive Toxicology	Association of Toxicology, India and Department of Veterinary Pharmacology and Toxicology, Veterinary College, Bengaluru
6	08.02.2016 to 10.02.2016	VPT, VCH	International Risk Assessment Workshop on qualification of impurities, Leachables, Extractables; Residual Solvents and Excipients	Association of Toxicology, India and VPT, VCH
7	31.01.2016	Veterinary College, Bengaluru	Spinal Surgery and Behavioural Medicine	MARS, International India and Veterinary College, Bengaluru
8	15.02.2016	Veterinary College, Bengaluru	Two day culture of Responsibility Train-the Trainers	Veterinary College, Bengaluru



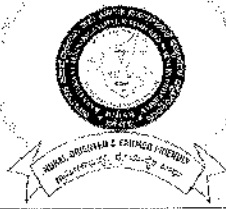
ii) National Level

a) Conference

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	03.12.2016 to 05.12.2015	VCH	(ISSAR) National Symposium on current challenges & opportunities in animal reproduction	Dep. of VGO, Veterinary College, Bengaluru
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)				
1	19.11.2015 to 20.11.2015	DSCH	National level Management Meet - Escares-2015	MBA (Food Business)

b) Workshops

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BIDAR (VCB)				
1	06.01.2016 to 07.01.2016	VCB	Capacity Building of Field Functionaries of World Bank Funded KWDD-Sujala-III Project-Livestock Support and Extension Activities	Sujala-III, Bidar Unit, Veterinary College, Bidar
VETERINARY COLLEGE, HASSAN (HVC)				
1	21.11.2015	HVC	Recent advances and hands on training in endoscopic surgery	Dept. of VSR, Veterinary College, Hassan
2	17.02.2016	HVC	Advanced concept in dairy cattle feeding practices	Veterinary College, Hassan and NABARD, Hassan
3	26.02.2016	HVC	Workshop on conservation and optimum utilization of animal genetic resources of Karnataka	Veterinary College, Hassan and K LDA
4	30.03.2016	HVC	Efficient utilization of maize crop by products for animal feeding	Veterinary College Hassan, NABARD, Hassan and HAMUL, Hassan
COLLEGE OF FISHERIES, MANGALURU (FCM)				
1	18.02.2016 to 20.02.2016	FCM	Aquatic Medicine	Dr. K M Shankar
2	23.06.2015	FCM	Innovation management, IPR and WTO: Significance for academia and its use in business and research.	WTO and IPR Cell of Visweshwaraiah Trade Promotion Centre, Bengaluru
3	24.02.2016 to 25.02.2016	FCM	Fish Processing	Dr. CV Raju & Dr. I.P Lakshmisha
4	29.02.2016 to 01.03.2016	FCM	Soft skill development workshops to I, II & III B FSc students- 3 Nos	Dr. M. N. Venugopal



INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)				
1	17.11.2015	IWVR, Kudige	“Chemical immobilization of wild animals” to the officers of Dept. of AH&VS of Mysuru, Hassan and Kodagu districts.	IWVR
2	23.01.2016	IWVR, Kudige	“Chemical immobilization of wild animals” to the officers of Dept. of AH&VS of Chithradurga, Chikkaballapura, Ballari, Davanagere and Belagavi districts.	IWVR
3	26.02.2016	IWVR, Kudige	“Veterinary aspects of wild animals” to the staff of the Department of Forest, Kodagu district	IWVR
FISHERIES RESEARCH & INFORMATION CENTER, HESARAGHATTA				
1	02.12.2015 to 04.12.2015	ICAR Research Complex, NEH Region, Barpani, Meghalaya	“Development of brood Bank for Amur carp”	FRIC, Hesaraghatta
FISHERIES RESEARCH & INFORMATION CENTER, BHUTNAL, VIJAYAPURA				
1	05.04.2016 to 06.04.2016	FRIC, Bhutnal	“Management of Amur Broodstock”	FRIC, Bhutnal
2	09.02.2016 to 15.02.2016	Anjuman Arts, Sciences and Commerce College, Vijayapura	Certificate Course in Aquaculture	FRIC, Bhutnal and Anjuman Arts, Sciences and Commerce College, Vijayapura

c) Seminars

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	06.07.2015	Kendriya Vidyalaya Yelahanka, Bengaluru	Awareness on Zoonotic diseases to students	EEC, Bengaluru and V.O, Jakkur , DAH& VS
2	06.07.2015	Army Public School, Bengaluru	Awareness on Zoonotic diseases to students	VCH, Bengaluru
3	06.07.2015	Hymamshu Jyothi Kala peetha, Bengaluru	Awareness on Zoonotic diseases to students	VCH, Bengaluru
4	06.07.2015	Govt.Girls High School and PU College, Bengaluru	Awareness on Zoonotic diseases to students	VCH, Bengaluru and KVA
5	06.07.2015	Poorna Pragyna High School, Bengaluru	Awareness on Zoonotic diseases to students	VCH, Bengaluru



6	08.07.2015	Govt High School, Hessarghata	Awareness on Zoonotic diseases to students	EEC, Bengaluru and KMF, Bengaluru
7	09.07.2015	Govt High School, Shivakote, Doddabalapur, Bengaluru (R)	Awareness on Zoonotic diseases to students	EEC, Bengaluru and KMF, Bengaluru
8	13.07.2015	Govt High school, Hebbal, Bengaluru	Awareness on Zoonotic diseases to students	VCH, Bengaluru
9	14.07.2015	SHG women Milk Cooperative Society, Kasavanahalli, Doddabalapura (T), Bengaluru (R)	Awareness on Zoonotic diseases to students	EEC, Bengaluru and KMF, Bengaluru
10	27.02.2016	Milk Society Kadamur, Bengaluru (R)	Awareness on Zoonotic diseases to students	EEC, Bengaluru and KMF, Bengaluru
11	30.03.2016	Members of Milk Society, Dharmapuri, TamilNadu	Exposure visit and awareness on fodder crops and farm animal management	EEC, Bengaluru
VETERINARY COLLEGE, HASSAN (HVC)				
1	26.11.2015	HVC	Prof. RD Nanjaiah Lecture on 'Opportunities in Dairy Industry' by Dr. Bernard Earnest	Veterinary College, Hassan.
2	05.03.2016	HVC	Prof. RD Nanjaiah Lecture on 'Veterinarian in Modern Society' by Prof. S. Abdul Rahman	Veterinary College, Hassan.
3	08.03.2016	HVC	Prof. RD Nanjaiah Lecture on 'Challenges of Women Veterinarians'	Veterinary College, Hassan.
4	27.03.2016	HVC	Prof. Ramappa Lecture on 'Opportunity for veterinarians in bio-medical research' by Kotrappa Y Mathur	Veterinary College, Hassan.
5	30.03.2016	HVC	Prof. RD Nanjaiah Lecture on 'Current trends in poultry nutrition' by Prof. B.S. Venkatarami Reddy	Veterinary College, Hassan.
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON (AHP)				
1	25.04.2015	AHP, Shiggaon,	Technical seminar on "Vector borne diseases of zoonotic importance"	AHP, Shiggaon, Dept. of AH&VS, KMF Haveri & KVA, Haveri
2	06.06.2015	Haveri	Technical seminar on Zoonotic Diseases	AHP, Shiggaon, Dept. of AH&VS, & KVA, Haveri



d) Trainings

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	23.04.2016	VCH	Training in sheep and goat rearing and management for farmers	RKVY, EEC & VAHE
2	15.05.2015	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
3	11.06.2015	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
4	30.07.2015 to 31.07.2015	VCH	TOT for VO's in Health Management of Sheep and Goats	Dept. of Veterinary Gynaecology and Obstetrics, EEC & VAHE
5	06.08.2015 to 07.08.2015	VCH	TOT for VO's in Health Management of Sheep and Goats	Dept. of Veterinary Gynaecology and Obstetrics, EEC & VAHE
6	17.08.2015 to 18.08.2015	VCH	TOT for VO's in Health Management of Sheep and Goats	Dept. of Veterinary Gynaecology and Obstetrics, EEC & VAHE
7	07.09.2015 & 08.09.2015	VCH	TOT for VO's in Health Management of Sheep and Goats	Dept. of Veterinary Gynaecology and Obstetrics, EEC & VAHE
8	21.09.2015 to 22.09.2015	VCH	TOT for VO's in Health Management of Sheep and Goats	Dept. of Veterinary Gynaecology and Obstetrics, EEC & VAHE
9	29.09.2015	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
10	29.10.2015	VCH	Training in sheep and goat rearing and management for farmers	RKVY, Dept of VGO and VAHEE
11	26.11.2015	VCH	Training in sheep and goat rearing and management for farmers	RKVY, Dept of VGO and VAHEE
12	10.12.2015	VCH	Training in sheep and goat rearing and management for farmers	RKVY, Dept of VGO and VAHEE
13	29.12.2015	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
14	12.01.2016	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
15	18.02.2016	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE



16	25.02.2016	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
17	17.03.2016	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
18	24.03.2016	VCH	Training in sheep and goat rearing and management for farmers	EEC & VAHE
19	31.03.2016	VCH	Training in piggery -rearing and management for farmers	EEC & VAHE
20	16.11.2015 to 06.12.2015	VCH	Techniques for exact identification and parasitic disease diagnosis in domestic animals	Centre of Advanced Faculty Training in Veterinary Parasitology funded by ICAR.
21	18.01.2016 to 22.01.2016	VCH	Advanced techniques for diagnosis of Infectious and systemic diseases of cattle, sheep, goat and dog	Dept. of Veterinary Pathology, Veterinary College, Bengaluru, ICAR NAE project.
22	01.02.2016 to 05.02.2016	VCH	Advanced techniques for diagnosis of Infectious and systemic diseases of cattle, sheep, goat and dog.	Dept. of Veterinary Pathology, Veterinary College, Bengaluru, ICAR NAE project.

VETERINARY COLLEGE, BIDAR (VCB)

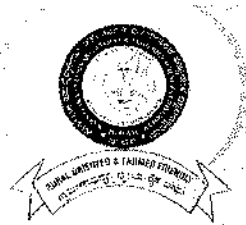
1	17.04.2015 to 22.04.2015	VCB	Scientific Dairy Farming	EEC, Bidar & HKCAL, Bidar
2	23.04.2015 to 28.04.2015	VCB	Scientific Dairy Farming	EEC, Bidar & HKCAL, Bidar
3	27.04.2015 to 02.05.2015	VCB	Scientific Dairy Farming	EEC, Bidar & HKCAL, Bidar
4	04.05.2015 to 09.05.2015	VCB	Scientific Dairy Farming	EEC, Bidar & HKCAL, Bidar
5	11.05.2015 to 16.05.2015	VCB	Scientific Dairy Farming	EEC, Bidar & HKCAL, Bidar
6	06.10.2015 to 08.10.2015	VCB	Scientific Dairy Farming	EEC, Bidar
7	25.11.2015 to 27.11.2015	VCB	Scientific Dairy Farming	EEC, Bidar
8	18.01.2016 to 20.01.2016	VCB	Scientific Goat Farming	EEC, Bidar
9	01.02.2016 to 03.02.2016	VCB	Identification and management in livestock	Department of Surgery and Radiology, Director of Extension KVAFSU,



10	04.02.2016 to 06.02.2016	VCB	Scientific Dairy Farming	EEC, Bidar
11	25.02.2016	Mustari, Humnabad	Scientific Goat Farming	EEC, Bidar
VETERINARY COLLEGE, SHIVAMOGGA (VCS)				
1	21.03.2016	VCS	Commercial poultry produce and value addition opportunities	Dept. of AGB Veterinary College, Shivamogga
2	11.06.2015	VCS	Sheep and Goat rearing for Rural Empowerment	EEC, KVAFSU.
3	05.11.2015 to 07.11.2015	VCS	Exploration of problems in Sheep and Goat rearing	EEC, KVAFSU.
4	30.11.2015 to 05.12.2015	VCS	Scientific poultry farming	Dept. of LPM ,Veterinary College, Shivamogga
5	17.12.2015 to 19.12.2015	VCS	Scientific Dairying	EEC, KVAFSU.
6	28.01.2016 to 30.01.2016	VCS	Scientific Dairying	EEC, KVAFSU.
7	04.02.2016 to 06.02.2016	VCS	Sheep and Goat farming	EEC, KVAFSU.
8	05.01.2016 to 06.01.2016	VCS	RKVY Sponsered 'Scientific piggery farming'	Dept of ILFC, Veterinary College, Shivamogga
VETERINARY COLLEGE, HASSAN (HVC)				
1	24.06.2015	Hangala, Gundlupet taluk	Awareness Programme cum Infertility treatment in dairy animals under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
2	08.07.2015 to 09.07.2015	HVC	Training Programme for Field Investigators of Sujala -III	Dept. of Veterinary & A.H. Extension Education
3	24.07.2015	Maleyur village of Chamarajana gar taluk	Awareness programme on Balanced feeding in dairy animals under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
4	25.07.2015	Honnegowda nahalli village of Gundlupet taluk	Awareness programme on Balanced feeding in dairy animals under Sujala-III project	Dept. of Veterinary & A.H. Extension Education



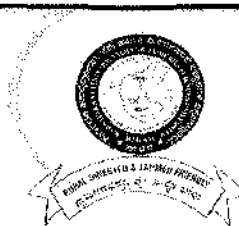
5	30.9.2015 to 9.10.2015	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
6	13.10.2015	Devarahalli village of Gundlupet taluk	Awareness programme on Sheep farming under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
7	14.10.2015	Sagade village of Chamarajana gar taluk	Awareness programme on Sheep farming under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
8	15.10.2015 to 17.10.2015	Veterinary College, Hassan	Scientific Rabbit rearing	Extension Education Centre, Hassan
9	16.11.2015 to 06.12.2015	CAFT, Department of Veterinary Parasitology, Bengaluru	Techniques for exact identification and parasitic disease diagnosis in domestic animals	Centre of Advanced Faculty Training in Veterinary Parasitology funded by ICAR.
10	26.10.2015 to 4.11.2015	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
11	19.11.2015 to 26.11.2015	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
12	30.11.2015	Halekoppalu village	Awareness campaign on calf management	Dept. of Veterinary & A.H. Extension Education
13	07.12.2015 to 16.12.2015	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
14	18.12.2015	Maleyur village of Chamarajana gar taluk	Field day on Fodder Nursery Demonstration under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
15	18.12.2015	Bettadapura village of Chamarajana gar taluk	Awareness programme on Subclinical Mastitis in dairy animals under Sujala-III project	Dept. of Veterinary & A.H. Extension Education
16	04.01.2016 to 13.01.2016	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
17	03.02.16 to 12.02.2016	HVC	Ration Balancing Programme	Dept. of Veterinary & A.H. Extension Education
18	10.02.2016	HVC	Training Programme for Field Investigators of Sujala -III	Dept. of Veterinary & A.H. Extension Education



19	10.03.2016 to 12.03.2016	Veterinary College, Hassan	Scientific sheep and goat rearing	Extension Education Centre, Hassan
20	17.03.2016 to 19.03.2016	Veterinary College, Hassan	Scientific Rabbit Farming	Extension Education Centre, Hassan
21	28.03.2016 to 30.03.2016	Veterinary College, Hassan	Improvised Dairy Farming	Extension Education Centre, Hassan
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)				
1	15.06.2015	DSCH	Guest lecture cum demonstration on ice cream preparation for participates of Diploma course from Bakery Training Unit	Dairy Science College, Bengaluru.
2	15.07.2015	DSCH	Hygienic Processing of Milk and Value Addition to Dairy Products	Dairy Science College, Bengaluru.
3	05.10.2015 to 07.10.2015	DSCH	Training program on preparation of value added dairy products for benefit of general public and house wives	Dairy Science College, Bengaluru.
4	29.10.2015	DSCH	One day demonstration cum training on preparation of value added milk products at Gundupalli Village, Bagepalli taluk to farm women	Dairy Science College, Bengaluru.
5	08.10.2015 to 17.10.2015	DSCH	Preparation of value added milk products	Dairy Science College, Bengaluru.
6	02.12.2015	DSCH	Innovative techniques in processing of fluid milk	Dairy Science College, Bengaluru.
7	01.07.2015 to 11.07.2015	DSCH	Training on Marketing for Dairy Professionals	Dairy Science College, Bengaluru
8	28.12.2015 to 02.01.2016	DSCH	Training programme on Digital marketing for 5 days	Dairy Science College, Bengaluru
9	15.02.2016 to 17.02.2016	Mangala Bavan	Training programme on Marketing Management to ameliorate Agrarian Distress for 3 days	Dairy Economics and Business Management
10	06.07.2015 to 11.07.2015	DSCH	Operation, Care and Maintenance of Dairy Processing Plant	Department of Dairy Engineering



DAIRY SCIENCE COLLEGE, MAHAGAON, KALABURGI (DSCM)				
1	19.01.2016 to 21.01.2016	DSCK (DT)	Womens farmers training on value added traditional dairy products	Dr. Sharanagouda B, Mr. Shankarlingayya V.S & Mr. Shivakumar
2	02.02.2016 to 04.02.2016	DSCK (DT)	Farmers training on value added traditional dairy products	Dr. Sharanagouda B, Mr. Shankarlingayya V.S & Mr. Shivakumar
3	11.02.2016 to 13.02.2016	DSCK (DM)	Importance of Clean Milk Production	Ms. Malashree L & Ms. Basava Bharati
4	Feb., 2016	DSCK (DC)	Milk quality control, importance and its challenges (In Kannada)	Mr. Rajanna M
COLLEGE OF FISHERIES, MANGALURU (FCM)				
1	29.10.2015 to 31.10.2015	FCM	Responsible fisheries for the fisherfolk of Dakshina Kannada.	Dept of Fisheries Engineering and Technology
2	01.06.2015 to 31.08.2015	FCM	Professional attachment training for ARS (probation) Scientist from CMFRI, Kochi.	Dept of Fisheries Microbiology
3	15.06.2015 to 20.06.2015	FCM	Microbiological techniques for MSc (Biotechnology) students from SDM College, Ujire.	Dept of Fisheries Microbiology
4	12.07.2015 to 19.07.2015	FCM	Aquaculture Nutrition and biotechnology for doctoral students from College of Fisheries, Ratnagiri, Maharashtra	Dept of Aquaculture
5	20.07.2015 to 30.07.2015	FCM	Aquatic animal health management for doctoral students from College of Fisheries, Ratnagiri, Maharashtra	Dept of Fisheries Microbiology
6	30.09.2015	FCM	Farming and rearing of goat for rural livelihood	College of Fisheries, Mangaluru
7	May-Aug., 2015	FCM	Professional attachment training for ARS (probation) Scientists	Dept of Aquaculture
8	15.05.2015 to 14.08.2015	FCM	Professional attachment training for ARS (probation) Scientist from CIFA, Bhubaneswar, Odisha	Dept of Fisheries Resources and Management
9	08.10.2015	FCM	Ornamental Fish Production and Marketing for rural livelihood	College of Fisheries, Mangaluru
10	16.10.2015	Pig Breeding Centre, Koyla, Puttur Taluk	Farming and rearing of pigs for rural livelihood	College of Fisheries, Mangaluru



11	04.11.2015	FCM	Backyard rearing of poultry for rural livelihood	College of Fisheries, Mangaluru
12	16.11.2015	Taluk Panchayath meeting Hall, Belthangady	Integrated Farming Systems	College of Fisheries, Mangaluru
13	11.01.2016 to 23.01.2016	FCM	Molecular techniques for characterisation of radiation resistant genes in bacteria for MSc (Biochemistry) students from St. Aloysius College, Mangaluru	Dept of Fisheries Microbiology
14	16.01.2016	FCM	Food safety and food hygiene for III BSc students conducted by 'Dhyeya Food Safety Training and Consultancy, Aurangabad	Dept of Fisheries Microbiology
15	29.02.2016	Shedikuli, Ankola	Marine cage fish farming	FRIC, Ankola and CMFRI, Karwar

INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU (IAH&VB)

1	15.06.2015 to 16.06.2015	NIVEDI, Bengaluru	Training on detection of brucellosis by protein G based Indirect ELISA	NIVEDI, Bengaluru
2	19.08.2015 to 26.08.2015	NIHSAD, Bhopal, MP	Laboratory Diagnosis of Avian Influenza and Bovine Viral Diarrhea"	Govt. of India

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)

1	21.12.2015	IWVR, Kudige	On "Use of tranquilization equipments" to the officers of Dept. of AH&VS of Shivamogga and Udupi Ramnagar, Chamaranagar, Mangaluru and Chikkamagalore districts	IWVR, Kudige
2	22.01.2016	IWVR, Kudige	On "Wild animal tranquilization" to the officers of Dept. of AH&VS Gadag, Karwar, Mandya, Bengaluru rural and Dharwad districts.	IWVR, Kudige
3	19.02.2016	PFA, Uttarahalli, Bengaluru	On "Biology, behaviour and Management of snakes" to the teaching staff of KVAFSU, Bidar. (Batch-I)	IWVR, Kudige



4	20.02.2016	PFA, Uttarahalli, Bengaluru	On "Biology, behaviour and Management of snakes" to the teaching staff of KVAFSU, Bidar (Batch-II)	IWVR, Kudige
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA (KVK-DK)				
1	05.06.2015	KVK-DK	Envioronmental Day Celebration	KVK-DK, Mangaluru
2	10.07.2015	KVK-DK	Composit fish Culture	KVK-DK, Mangaluru
3	14.08.2015	KVK-DK	Agricultural Awareness Programme for the students	KVK-DK, Mangaluru
4	28.09.2015	KVK-DK	Agriculture Awareness Programme for the farmers	KVK-DK, Mangaluru
5	16.10.2015	KVK-DK	Preparation of Bakery Products	KVK-DK, Mangaluru
6	21.11.2015	KVK-DK	Aquarium fabrication and maintenance	KVK-DK, Mangaluru
7	05.12.2015	KVK-DK	Importanance of Soil helath	KVK-DK, Mangaluru
8	02.01.2016	KVK-DK	Scientific Swarnadhara Poultry Farming	KVK-DK, Mangaluru
9	06.01.2016	KVK-DK	Scientific Dairy Farming	KVK-DK, Mangaluru
10	18.01.2016	KVK-DK	Scientific Goat farming	KVK-DK, Mangaluru
11	25.01.2016	KVK-DK	Scientific Goat farming	KVK-DK, Mangaluru
12	03.03.2016	KVK-DK	Mushroom Cultivation	KVK-DK, Mangaluru
13	04.03.2016	KVK-DK	Mushroom Cultivation	KVK-DK, Mangaluru
14	11.06.2015	Gerukatte Village Belthangady	ICM in Paddy	KVK-DK, Mangaluru
15	14.08.2015	Padumale, Puttur	Ornamental fish breeding and rearing	KVK-DK, Mangaluru
16	01.09.2015	Koyla, Puttur	Backyard rearing of Swarnadhara poultry birds	KVK-DK, Mangaluru
17	15.10.2015	Gerukatte Village Belthangady	ICM in Paddy	KVK-DK, Mangaluru
18	15.10.2015	Uppinangadi	Integrated Micronutrient Mangement in Pepper	KVK-DK, Mangaluru
19	17.10.2015	Manjanadi	Integrated Micronutrient Management in Coconut	KVK-DK, Mangaluru
20	05.11.2015	Tekmijaru	Integrated crop Management in Jasmine	KVK-DK, Mangaluru
21	09.11.2015	Balapa	Integrated Farming system for livelihood security	KVK-DK, Mangaluru
22	11.11.2015	Nooji	Quick wilt disease Management Practices in Pepper	KVK-DK, Mangaluru
23	17.11.2015	Kairangala , Bantwal Tq.	Fish culture and Poultry farming	KVK-DK, Mangaluru
24	25.11.2015	Alankaar, Puttur	Backyard rearing of Swarnadhara Poultry birds	KVK-DK, Mangaluru



25	26.11.2015	Ordinal	High Yielding varieties of cowpea (Arka Mangala)	KVK-DK, Mangaluru
26	26.11.2015	Beluvai, Mangaore Tq.	Yellow vein mosaic disease Management practices in bhendi	KVK-DK, Mangaluru
27	27.11.2015	Beluvai, Mangaore Tq.	Pest and disease management practices in arecanut	KVK-DK, Mangaluru
28	06.01.2016	Kavu, Puttur	FLD on Integrated crop management in Banana	KVK-DK, Mangaluru
29	12.01.2016	Kajoor	Production technology in Greengram (NFSM)	KVK-DK, Mangaluru
30	13.01.2016	Nellur, Kemraje	Perennial Multicut Fodder Sorghum var. CoFS-29	KVK-DK, Mangaluru
31	13.01.2016	Nellur, Kemraje	Short duration Fodder Cow pea var. MFC-09-01	KVK-DK, Mangaluru
32	28.01.2016	Naravi	Production Technology in Green gram(NFSM)	KVK-DK, Mangaluru
33	01.02.2016	Kajoor, Belthangady Tq.	Cultivation aspects of paired row planting system in Banan	KVK-DK, Mangaluru
34	26.02.2016	Machina, Belthangady Tq.	Improved cultivation practices of HYV Ginger	KVK-DK, Mangaluru
35	26.02.2016	Higher Primary School, Jeppu Mangaluru	Fish -Its Importance	KVK-DK, Mangaluru
36	27.02.2016	Hosangady	Management of Inflorescence dieback and inflorescence caterpillar in arecanut	KVK-DK, Mangaluru
37	08.04.2015 to 11.04.2015	KVK-DK	Cashew apple utilization	DCCD Cochin Kerala
38	06.10.2015 to 10.10.2015	KVK-DK	"Friends of Coconut Tree"	FOCT Palm Climbing & Plant Protection
39	01.12.2015 to 05.12.2015	KVK-DK	"Friends of Coconut Tree"	FOCT Palm Climbing & Plant Protection



LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA (LRIC-Nag)

1	21.07.2015	LRIC(S)	Sheep Production and Management	LRIC(S), Nagamangala
2	01.01.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala
3	28.01.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala
4	23.02.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala
5	03.03.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala
6	12.03.2016	LRIC(S)	Scientific Sheep and Goat Production	LRIC(S), Nagamangala
7	23.03.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala
8	30.03.2016	LRIC(S)	Sheep production and management practices	LRIC(S), Nagamangala

FISHERIES RESEARCH & INFORMATION CENTER, HEBBAL, BENGALURU

1	04.02.2016 to 06.02.2016	FRIC, Hebbal	Preparation of value added fish and prawn products and women entrepreneurship	FRIC, Hebbal and CIFT, Cochin
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FISHERIES RESEARCH & INFORMATION CENTER, HESARAGHATTA, BENGALURU

1	10.07.2015	Department of Fisheries	Fish culture in natural tank	FRIC(I), Hesaraghatta
2	19.12.2015	FRIC(I), Hesaraghatta	Fish culture in natural tank	FRIC(I), Hesaraghatta
3	06.02.2016	FRIC(I), Hesaraghatta	Integrated fish culture	FRIC(I), Hesaraghatta

FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

1	25.03.2016 to 27.03.2016	FRIC, Bhutnal	Demonstration cum Training programme on Value added product preparation from Fish.	FRIC, Bhutnal and Central Institute of Fisheries Technology, Mumbai
2	27.7.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming	FRIC, Bhutnal, Vijayapura
3	14.8.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming	FRIC, Bhutnal, Vijayapura
4	09.09.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming	FRIC, Bhutnal, Vijayapura
5	09.10.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming	FRIC, Bhutnal, Vijayapura



6	04.11.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming and kannada Rajyotsva	FRIC, Bhutnal, Vijayapura
7	18.12.2015	FRIC, Bhutnal, Vijayapura	Scientific fish farming and Seed distributions	FRIC, Bhutnal, Vijayapura
8	12.02.2016	FRIC, Bhutnal, Vijayapura	Scientific fish farming and Seed distributions	FRIC, Bhutnal, Vijayapura

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

1	10.07.2015	FRIC(M), Ankola	Fish Farmers day & training Fresh/Brackish water fish farming practices	FRIC(M), Ankola and Dept.of Fisheries, Ankola
2	29.02.2016	FRIC(M), Ankola	Marine Cage Aquaculture to Fisherman of Shedikuli, Ankola under AINP-Mariculture project	FRIC(M), Ankola
3	11.03.2016	FRIC(M), Ankola	Value added products of Fish/shrimp and Demonstration of Fish/Shrimp pickle preparation	FRIC(M), Ankola and Dept.of Fisheries, Ankola

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI, TIPTUR (AHP)

1	01.04.2015	Kumar Dairy Farm, Baralu, Channarayap attana	Dairy farming training	AHP, Konehalli
2	18.06.2015	AHP, Konehalli	Dairy farming training	AHP, Konehalli
3	19.06.2015	BAIF, Tiptur	Dairy farming and Rural Development	AHP, Konehalli
4	08.08.2015	KVK, Bidaregudi	Agriculture conference	AHP, Konehalli & KVK, Bidaregudi
5	29.09.2015	Siddarahalli	Castration in pigs	AHP, Konehalli
6	03.12.2015	Siddarahalli	Castration in pigs	AHP, Konehalli
7	19.01.2016	Siddapura	Poultry farming	AHP, Konehalli
8	22.02.2016	AHP, Konehalli	Modern Dairy Farming	AHP, Konehalli
9	14.03.2016	AHP, Konehalli	Modern Dairy Farming	AHP, Konehalli

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI (AHP)

1	09.05.2015	Melmatha, Tq. Ron	Improved livestock farming practices	AHP, Shiggaon, Sujala - 3
2	11.06.2015	Ranatur, Tq. Shirahatti	Community mobilization for effective fodder utilization and increasing livestock productivity.	AHP, Shiggaon, Sujala - 3



3	08.09.2015	Ranatur, Tq. Shirahatti.	Milk quality with reference to fat and SNF content and fodder enrichment.	AHP, Shiggaon, Sujala - 3
4	29.09.2015	Shirol, Tq. Gadag.	Milk quality with reference to fat and SNF content	AHP, Shiggaon, Sujala - 3
5	29.09.2015	YeliShirur, Tq. Gadag.	Focussed group discussion for preparation of comprehensive livestock development plan	AHP, Shiggaon, Sujala - 3
6	02.10.2015	Menasgi, Tq. Ron,	Importance of balanced ration to dairy animals and enrichment of dry fodder.	AHP, Shiggaon, Sujala - 3
7	02.10.2015	Karamudi, Tq. Ron.	Importance of balanced ration to dairy animals and enrichment of dry fodder	AHP, Shiggaon, Sujala - 3
8	26.10.2015	Asuti, Tq. Ron.	Community chaff cutting and fodder enrichment.	AHP, Shiggaon, Sujala - 3
9	21.12.2015 to 23.12.2015	Shiggaon	Scientific dairy farming	AHP, Shiggaon
10	14.03.2016 to 16.03.2016	Shiggaon	Dairy Enterprenurship Development	AHP, Shiggaon



2. Participation as Resource Scientist in Conference / Training Programmes / Workshops / Seminars / Symposia / Winter School, etc.

#	Institution	Conferences	Training Programmes	Workshops	Seminars	Symposia	Winter/Summer Schools	Total
1	Directorate of Extension, KVAFSU, Bidar							
2	Veterinary College, Bengaluru	08	109	07	20	01	05	150
3	Veterinary College, Bidar	00	86	03	04	00	01	94
4	Veterinary College, Shivamogga	02	65	13	08	00	01	89
5	Veterinary College, Hassan	04	28	03	03	00	01	39
6	Dairy Science College, Bengaluru	00	07	00	00	00	00	07
7	Dairy Science College, Kalaburgi	00	08	00	00	00	00	08
8	College of Fisheries, Mangaluru	03	13	08	00	02	00	26
9	IAH&VB, Bengaluru	00	53	03	06	00	00	62
10	Krishi Vigyan Kendra, Dakshina Kannada	00	75	10	00	00	00	85
11	FRIC, Hebbal, Bengaluru	00	05	00	02	00	00	07
12	FRIC, Hesaraghatta, Bengaluru	00	07	00	00	00	00	07
13	FRIC, Bhutnal, Vijayapura	00	08	02	00	00	00	10
14	FRIC, Ankola, Uttar Kannada	00	10	00	00	00	00	10
15	LRIC, Nagamangala	01	01	02	02	00	00	06
16	LRIC, Hallikhed	00	08	00	00	00	00	08
17	LRIC, Konehalli	00	03	00	00	00	00	03
18	AHP, Shiggaon, Haveri	00	07	01	01	00	00	09
	Total	18	493	52	46	03	08	620



3. Participation as Trainee Scientists in Conference / Training Programmes / Workshops / Seminars / Symposia / Winter School, etc.

#	Institution	Conferences	Training Programmes	Workshops	Seminars	Symposia	Winter/ Summer Schools	Total
1	Veterinary College, Bengaluru	10	05	21	08	01	03	48
2	Veterinary College, Bidar	08	12	07	05	02	03	37
3	Veterinary College, Shivamogga	06	17	12	06	00	11	52
4	Veterinary College, Hassan	02	02	01	10	02	03	20
5	Dairy Science College, Kalaburgi	00	04	00	00	00	04	08
6	College of Fisheries, Mangaluru	01	04	11	02	02	00	20
7	IAH&VB, Bengaluru	00	05	00	02	00	00	07
8	IWVR, Kudige	03	00	03	00	00	01	07
9	Krishi Vigyan Kendra, Dakshina Kannada	03	01	10	04	01	01	20
10	FRIC, Hebbal, Bengaluru	02	00	00	00	00	00	02
11	FRIC, Hesaraghatta	00	01	00	00	00	00	01
12	FRIC, Ankola, Uttar Kannada	00	02	00	00	02	00	04
13	LRIC, Nagamangala, Mandya	00	00	01	00	01	00	02
14	LRIC, Hallikhed	01	00	01	01	00	01	04
15	AHP, Konehalli	00	02	00	00	00	00	02
16	AHP, Shoggaon, Haveri	00	00	01	01	00	00	02
Total		36	55	68	39	11	27	236



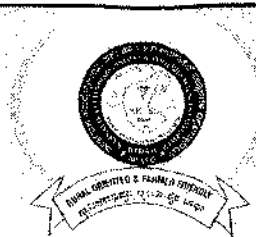
4. Radio Talk/TV Programmes

a) Radio Talks

#	Date	AIR Station	Scientist	Topic
VETERINARY COLLEGE, BENGALURU				
1	15.02.2016	AIR, Bengaluru	Dr. S.Yathiraj	Diseases on Sheep and Goat and their prevention
2	07.05.2015	AIR, Bengaluru	Dr. K. Satyanarayan	Summer Management of Livestock
3	04.12.2015	AIR, Bengaluru	Dr. G.C. Puttalakshamma	Problems of parasites in animal and their control
4	28.09.2015	AIR, Bengaluru	Dr. Leena, G.	Rabies and Control
5	19.01.2016	AIR, Bengaluru	Dr. N.B. Shridhar	Lantana poisoning in cattle and its treatment
6	14.04.2016	AIR, Bengaluru	Dr. M. Narayana Swamy	Phone in programme on 125 th Birthday Celebration of Dr. B. R. Ambedkar
7	30.04.2015	AIR, Bengaluru	Dr. D. Rathnamma	Control of major bacterial diseases in Livestock
8	01.12.2015	AIR, Bengaluru	Dr. D. Rathnamma	Control of Sheep Pox and Leptospirosis in Livestock
9	22.09.2015	AIR, Bengaluru	Dr. A .Muralidhar	Parasitic diseases during rainy season and its control in cattle
10	08.10.2015	AIR, Bengaluru	Dr. A .Muralidhar	Anthelmintic treatment in sheep
11	03.03.2016	AIR, Bengaluru	Dr. A .Muralidhar	Mastitis –therapeutic approach
VETERINARY COLLEGE, BIDAR				
1	21.04.2015	AIR, Shivamogga	Dr. Krishnamurthy, C.M.	Ticks as vectors of Diseases and Management
2	01.07.2015	AIR, Kalaburgi	Dr Arun Kharate	Zoonoses-Meaning, Prevention and Control in general
3	01.07.2015	AIR, Kalaburgi	Dr Arun Kharate	Prevention and Control of Anthrax, Rabies, Listeriosis and Swine Flu
VETERINARY COLLEGE, SHIVAMOGGA				
1	10.12.2015	AIR, Bhadravati	Dr. Chidanandaiah	Radio talk on “Traditional value added milk and milk products
2	01.06.2015	AIR, Bhdravati	Dr. Nagappa, S. Karabasanavar	Biosecurity in scientific poultry farming
3	18.12.2015	AIR, Bhadravati	Dr. Santosh, A. Sajjan	Important Zoonotic diseases in Farm Animals
4	19.12.2015	AIR, Bhadravathi	Dr. K.C. Veeranna	Hatchery of local chickens for self employment
5	29.07.2015	AIR, Bhadravathi	Dr. K.C. Veeranna	Sheep and goat farming
6	07.05.2015	AIR, Bhadravathi	Dr. Gopala, G.T.	Cattle insurance and its importance



7	23.07.2015	AIR, Bhadravati	Dr. Ravindra, B.D.	Interview on pre parturient and post parturient nutritional management
8	05.01.2016	AIR, Badravathi	Dr. Krishnamurthy, T.N.	Backyard poultry farming
9	09.05.2015	AIR, Badravathi	Dr. Umesh, B.U.	Broiler rearing practices
10	03.07.2015	AIR, Badravathi	Dr. Satheesha, G.M.	Samagra pashupalana paddathigalu
11	30.03.2015	AIR, Bhadravati	Nagaraja, L.	Black quarter & Haemorrhagic septicaemia in cattle and buffaloes and their management
12	21.10.2015	AIR, Bhadravati	Suresh Patel, R.	Haemorrhagic septicaemia in sheep and goats- reasons and control
13	09.11.2015	AIR, Bhadravati	Malatesh, D.S.	Management of Mastitis
14	27.05.2015	AIR, Bhadravati	Dr. A.J. Shankare Gowda	Hainu rasugalli santanopathige hattu halavu sootragalu
15	01.06.2015	AIR, Bhadravati	Dr. B.P. Ravi kumar	Hainu rasugalli punaravarthitata bedege kaaranagalu, idara thondaregalu and nivarana kramagalu
16	23.10.2015	AIR, Bhadravati	Dr. A. Murugeppa	Hainuraasugalli bede chakrada pramukyatheya bagge hainugaara raitharige manavarike
VETERINARY COLLEGE, HASSAN				
1	16.05.2015	AIR, Hassan	Dr. H.S. Madhusudhan	Nutrition and management of pet dogs
2	20.05.2015	AIR, Hassan	Dr. H.S. Madhusudhan	Non-conventional feeds for livestock
3	18.07.2015	AIR, Bhadravati	Dr. Ganga Naik, S.	Management of dairy animals during Rainy season
4	13.11.2015	AIR, Hassan	Dr Nagarju, N.	Bovine lameness and fracture management
5	03.01.2016	AIR, Hassan	Dr. Suma, N.	Blind believes in cattle rearing and its realities
6	04.01.2016	AIR, Hassan	Dr. M.S. Vasanth	Butthi- Reminiscence of eminent personalities- Live interview cum talk
7	21.01.2016	AIR, Hassan	Dr. Suma, N.	Hints for successful dairy
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU (IAH&VB)				
1	17.01.2016	AIR, Bengaluru	Dr. Amitha Reena Gomes	Interview on diseases of sheep and control



INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU				
1	04.06.2015	AIR, Madikeri	Dr. Madhukar	Human Elephant conflict-a panel of discussion by chief conservator of forest Kodagu
2	05.06.2015	AIR, Madikeri	Prof. H. A. Upendra	Interview on IWVR activities
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA (KVK-DK)				
1	27.06.2015	AIR, Mangaluru	Harish Shenoy	Importance of Jack fruit on Sarang Community Radio Station
2	24.07.2015	AIR, Mangaluru	Harish Shenoy	Paddy Cultivation Practices
3	15.09.2015	AIR, Mangaluru	Dr. H. Hanumanthappa,	Role of KVK in Rural Economy
4	06.10.2015	AIR, Mangaluru	Shwetha B.K.	Mushroom Cultivation & Value Addition
LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA (LRIC)				
1	10.06.2015	AIR, Bhadravathi	Dr. Manjunatha, S.S.	Swine Flu & its Public Health Significance
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU				
1	17.10.2015	AIR, Bengaluru	K. N. Prabhudeva	Use of agriculture wastes in aquaculture for organic fish production
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA				
1	19.06.2015	AIR, Bhdravati	Dr. Vijayakumar, S.	Common Problems in Fisheries during rainy season
2	23.09.2015	AIR, Vijayapura	Dr. Vijayakumar, S.	Interview in Kannada on Fisheries and importance
3	21.10.2015	AIR, Vijayapura	Dr. Vijayakumar, S.	Lecture on Profitable fish culture in rural sector
4	14.10.2015	AIR, Vijayapura	Dr. Vijay, S. Atanur	Interview in Kannada on Problems during Manson Season in fish farming
5	28.10.2015	AIR, Vijayapura	Dr. Vijay, S. Atanur	Lecture on Kannada "Sarva Rogakku Meenu Maddu"



b) TV Programmes

#	Date	Station	Scientist	Topic
VETERINARY COLLEGE, BENGALURU				
1	05.10.2015	Management of Mastitis in Cows	Dr. S.Yathiraj	Recording - DD Chandna
2	06.10.2015	Management of Mastitis in Cows	Dr. S.Yathiraj	Re-telecast - DD Chandna
3	15.02.2016	Discussion on escape of leopard from BBP Rescue Centre	Dr. S.Yathiraj	News 9 (English)
4	28.10.2015	Profitable Bannur sheep farming	Dr. S.B. Prasanna	ETV news channel "Annadata" Programme
5	16.06.2015	Pannel discussion on Zoonotic importance of Toxoplasmosis	Dr. P.M. Thimma Reddy	TV 9, Bengaluru
6	27.08.2015	Diseases of Cattle	Dr. P. T. Ramesh	Public TV, Bengaluru
7	23.10.2015	Common poisonings in livestock	Dr. N.B. Shridhar	DD, Chandana
8	08.06.2015	Availability of Veterinary Graduates in Karnataka – a simple bite	Dr. L. Ranganath	Kasturi and Samaya Kannada TV Channel
9	10.11.2015	Prime Debate on Animal Behaviour	Dr. L. Ranganath	ETV Kannada News Channel
10	09.03.2016	Panel discussion on Snake Juice	Dr. L. Ranganath	Suvarna News Channel
11	25.02.2016	Swarnadhara birds rearing in backyard	Dr. Jayanaik Dr. T. Munegowda	ETV Kannada New Channel
12	05.10.2015	Control of Brucellosis in livestock	Dr. Shrikrishna Isloor	Doordarshan Kendra, Bengaluru in Krishi Darshan programme
13	30.07.2015	Anthrax	Dr. A .Muralidhar	DD, Chandana
14	18.01.2016	Black Quarter	Dr. A .Muralidhar	DD, Chandana
15	20.01.2016	Control of external parasites in domestic animals	Dr. M. Narayana Bhat	DD, Chandana
16	13.01.2016	Artificial insemination in cattle	Dr. V.C. Murthy	DD chandana
17	20.01.2016	Animal house sanitation and hygiene	Dr. V.C. Murthy	DD Chandana
18	10.02.2016	Examination of hoofs in ruminats	Dr. V.C. Murthy	DD Chandana
19	22.08.2015	Debate on wild animals	Dr. V.C. Murthy	Public TV



VETERINARY COLLEGE, BIDAR				
1	05.06.2015	Live phone in on animal surgery	Dr. B. V. Shivaprakash	DD Chandana Bengluru
2	10.12.2015	Urinary Surgery	Dr. B. V. Shivaprakash	DD Chandana Bengluru
3	27.02.2016	Plastic Problems	Dr. B. V. Shivaprakash	DD Kissan Bengaluru
4	25.04.2016	Efficient utilization of crop residues through urea ammoniation	Dr. B. Ramachandra	CHANDANA TV
VETERINARY COLLEGE, SHIVAMOGGA				
1	17.09.2015	Problems in stall fed sheep and goat farming	Dr. K.C. Veeranna	Doordarshan, Bengaluru
2	04.04.2015	Cultivation of Fodder crops and management	Dr. Venkatesh, M.M.	Doordarshan
3	25.04.2015	Vignanika handi sakanike- ondu labhadayaka uddime	Dr. Satheesha, G.M.	Doordarshan
4	08.04.2015	Use of green fodder crops for better milk production	Dr. Venkatesh, M.M.	Doordarshan
5	17.07.2015	Hittala koli sakanike	Dr. Umesh, B.U.	Doordarshan
6	08.08.2015	Use of green fodder crops for better milk production	Dr. Venkatesha, M.M.	Doordarshan
VETERINARY COLLEGE, HASSAN				
1	09.02.2016	Dr. M.S. Vasanth	Leopard in the School- Live panel discussions	TV-9
2	10.02.2016	Dr. M.S. Vasanth	Leopard in the City - Live panel discussions	Suvarna Channel TV
3	10.02.2016	Dr. M.S. Vasanth	Feelings in wild animals and wild life - human conflicts - Live panel discussions	TV-9
4	15.02.2016	Dr. M.S. Vasanth	Escaping of Leopard from captivity - Live panel discussion	TV-9
5	15.02.2016	Dr. M.S. Vasanth	Leopard Escape- Live panel discussion	Public TV
6	15.02.2016	Dr. M.S. Vasanth	Leopard Escape- Live panel discussion	Suvarna TV



7	15.02.2016	Dr. M.S. Vasanth	Free Leopards - Live panel discussion	TV-9
8	20.02.2016	Dr. M.S. Vasanth	Monitor lizzards as Aphrodisiacs	TV-9
9	24.02.2016	Dr. M.S. Vasanth	Abuse of Meloxicam in children & animals	TV-9
COLLEGE OF FISHERIES, MANGALURU				
1	03.07.2015	Dr. Shivakumar Magada	Smart Classes	Spandana TV
2	11.07.2015	Dr. Shivakumar Magada	Fisheries - A Wonder	Spandana TV
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU (IAH&VB)				
1	09.04.2015	Dr. Amitha Reen Gomes	PPR management	DD Chandana
2	13.05.2015	Dr. Sumanth Kumar	Black Quarter Disease Management in livestock	Doordarshan
3	14.07.2015	Dr. Amitha Reen Gomes	PPR management	DD Chandana
4	11.11.2015	Dr. Amitha Reen Gomes	PPR management	DD Chandana
5	03.03.2016	Dr. Saritha	Ranikhet disease	DD Chandana
6	22.03.2016	Dr. Sumanth Kumar	Black Quarter Disease Management in Livestock	Doordarshan
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA (KVK-DK)				
1	13.06.2015	Harish Shenoy	Jack fruit and its uses	PRAJA TV and V4 news
2	21.07.2015	Dr. T.S. Annappaswamy	Integrated Farming System	Dooradarshan (Chandana)
3	17.08.2015	Harish Shenoy	KVK Activities and importance of IFS	Chandana TV
4	17.08.2015	Dr. T.S. Annappaswamy	Integrated Fish Farming (Integration of Poultry with fish farming)	Dooradarshan (Chandana TV)
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA				
1	20.04.2015	Dr. Vijayakumar, S.	Fresh water prawn farming	Dooradarshan Kendra, Bengaluru
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL				
1	04.12.2015	Dr. K. N. Prabhudeva	Substrate based aquaculture	DD Chandana
2	09.12.2015	Dr. K. N. Prabhudeva	Use of agriculture wastes in fish culture	ETV Kannada News



3	15.03.2016	Dr. K. N. Prabhudeva	Utilization of vegetable and fruit refuse for animal feeding	ETV Kannada News
4	08.03.2016	Dr. K. N. Prabhudeva	Value addition of fish and prawn products	ETV Kannada News
5	09.03.2016	Dr. K. N. Prabhudeva	Women entrepreneurship through value added fish and prawn products	DD Chandana
6	08.12.2015	Dr. K. B. Rajanna	Rearing of stunted fingerlings	ETV Kannada News
7	11.12.2015	Dr. K. B. Rajanna	Growing of stunted fingerlings for better survival and production	DD Chandana
8	12.12.2015	Dr. N. Chethan	Water quality management in fish seed rearing	ETV Kannada News
9	15.12.2015	Dr. N. Chethan	Water quality management in aquaculture	DD Chandana

CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, MUDHOL (CRIC)

1	20.09.2015	Dr. Mahesh, S. Doddamani	General aspects of Mudhol Hound rearing	ETV Kannada Annadata programme
2	13.02.2016	Dr. Mahesh, S. Doddamani	Introduction of Mudhol Hound to Indian Army	TV-9 Kannada
3	17.02.2016	Dr. Mahesh, S. Doddamani	Introduction of Mudhol Hound to Indian Army	TV-9 Kannada



ABSTRACT OF RADIO TALKS AND TV PROGRAMMES DURING 2014-15

#	College/Institute	Radio Talks	TV Programmes	Total
1	Veterinary College, Bengaluru	11	19	30
2	Veterinary College, Bidar	03	04	07
3	Veterinary College, Shivamogga	16	06	22
4	Veterinary College, Hassan	07	09	16
5	College of Fisheries, Mangaluru	00	02	02
6	IAH&VB, Bengaluru	01	06	07
7	IWVR, Kodagu	01	00	01
8	KVK, Dakshina Kannada	04	04	08
9	FRIC, Hebbal, Bengaluru	01	09	10
10	FRIC, Hesaraghatta, Bengaluru	01	00	01
11	FRIC, Ankola, Uttara Kannada	01	00	01
12	FRIC, Bhutnal, Vijayapura	05	01	06
13	LRIC, Nagamangala	01	01	02
14	CRIC, Timmapur, Mudhol	03	03	06
Total		55	64	119

5. Animal Health Camps

	Name of the College/Institute	No. of Animal Health Camps	No. of cases treated/advised
1	Veterinary College, Bengaluru	16	1152
2	Veterinary College, Bidar	02	250
3	Veterinary College, Shivamogga	15	1902
4	Veterinary College, Hassan	09	513
5	IAH&VB, Bengaluru	02	97
6	LRIC, Nagamangala, Mandya	04	285
7	LRIC, Konehalli, Tiptur	02	85
8	CRIC, Timmapur, Bagalkot	06	301
9	Animal Husbandry Polytechnic, Konehalli, Tiptur, Tumkur	03	145
Total		59	4730



6. Demonstrations / Exhibitions / Field Days / Pashu / Matsya Mela

#	Name of the College/Institute	No. of Demonstrations	Pashu/Matsya Mela
1	Directorate of Extension, KVAFSU, Bidar		
2	Veterinary College, Bengaluru	01	Krishimela-2015, UAS, Bengaluru
		01	Mysuru Kennel club Dog Show
		01	Exhibited Poultry Birds in Krishimela-2015, UAS, Bengaluru
		01	Demonstration of estrous synchronization, AI and pregnancy diagnosis using ultrasound was made during the training programmes held for farmers and vets.
3	Veterinary College, Bidar	16	02
4	Veterinary College, Shivamogga	16	03
5	Veterinary College, Hassan	06	1 Dog Show, 1 Hoysala Utsava Exhibition
6	Dairy Science College, Bengaluru	03	02
7	Dairy Science College, Kalaburgi	04	-
8	College of Fisheries, Mangaluru	01	04
9	IAH&VB, Bengaluru	-	03
10	KVK, Dakshina Kannada	03	07
11	FRIC, Hebbal, Bengaluru	05	04
12	FRIC, Hesaraghatta, Bengaluru	00	04
13	FRIC, Ankola	01	02
14	FRIC, Bhutnal, Vijayapura	03	07
15	LRIC, Konehalli, Tiptur, Tumkur	-	01
16	LRIC, Nagamangala, Mandya	05	02
17	LRIC, Hallikhed	-	01
18	CRIC, Timmapur, Bagalkot	02	06
19	Extension Education Center, Bengaluru		
20	Extension Education Center, Bidar		
21	Extension Education Center, Shivamogga		
22	Extension Education Center, Hassan		
23	Animal Husbandry Polytechnic, Konehalli	01	01
24	Animal Husbandry Polytechnic, Shiggaon	14	01
	Total	84	56



7. Animal Health Care Services to Farmers

College / Institute	Service Provided	Total Nos.
Veterinary College, Bengaluru	Demonstrated milking facility, silage making, straw enrichment, sheep and pig rearing and Practical demonstration on 'Sheep and goat rearing –Management and Business opportunities'	248
	Advised on prevention of livestock diseases	65
	Treatment of Surgical diseases in Small and Large Animals	11,400
	Monitoring of FMD vaccination under FMD-CP at Chikkaballapur District by Dept. of Veterinary Microbiology	04
	No of Cases treated at Veterinary College, Bengaluru Hospital (Day Clinic), Hebbal, Bengaluru for the year 2015-16 Bovine: 1734, Canine: 33767, others: 2631	38132
	Total No. of cases treated Veterinary College Hospital (Evening Clinic), Hebbal, Bengaluru for the Year 2015-16 Bovine: 66, Canine: 5548, others: 946	6540
	No. of Cases treated at Veterinary Hospital, Yalahanka, Bengaluru for the year 2015-16 Bovine: 1341, Canine: 5126, others: 1573	8040
	Yaliyuru, Devanahalli (Treated all Gynaecological cases)	93
	Mahadeva kodigehalli, Bengaluru (Treated all Gynaecological cases)	65
	Dog Show, Kolar Kennel Club	250
Veterinary College, Bidar	---	18099
Veterinary College, Shivamogga	Treatment of medical, surgical and gynaecological diseases and disorders, pregnancy diagnosis, artificial insemination, vaccination.	7674
	Treatment of medical, surgical and gynaecological diseases and disorders, pregnancy diagnosis artificial insemination, vaccination.	949
	Surgical treatment/interventions/ operations in OPD/OT for the year 2015-16 (01.04.2015 to 29.02.2016)	2090
	Control of parasitic diseases of domestic animals	1
	Regarding zoonotic parasitic diseases	1
	Treatment and health care for Reproductive problems in domestic animals	1346 (SA-525, LA-821)

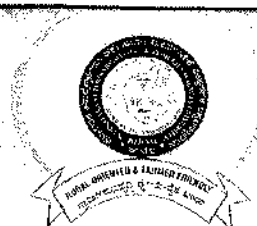


Veterinary College, Hassan	Consultancy and treatment of livestock	358
	Visits to the villages for disease investigation, conduct post mortem, screening, etc.	58
	Major Surgeries- 204 Minor surgeries- 268 & other surgery related treatment to ailing animals – 719	1191
	Treatment to ailing animals – medicine cases	6210
	Gynaecological cases Artificial Insemination: 582 Treatment: 468 Reproductive Surgeries: 64	1094
	College of Fisheries, Mangaluru	Diagnosis of diseases of finfishes
IAH&VB, Bengaluru		
FRIC, Hebbal, Bengaluru	Fish Prawn	08
LRIC, Konehalli, Tiptur, Tumkur	Treated ailing animals of LRIC(A)	30
	Deworming of farm livestock	185
	Vaccination of farm livestock against FMD, HS and BQ	190
	Vaccination of sheep for ET and PPR	64
LRIC, Nagamangala, Mandya	Health care during Field Visit	650
CRIC, Mudhol, Bagalkot	Consultancy Service to local Mudhol hound dogs	113
Animal Husbandry Polytechnic, Konehalli	Pig castrations	40
	Treated Ailing Animals of the Surrounding villages of the Institution	85
	AHD students have assisted in the treatment of ailing animals in different veterinary hospitals under W.Ex course	810
	No. of Inseminations done by AHD Students in different Hospitals	365
	No. of castrations done by AHD Students in different Hospitals	360
	No. of Animals dewormed by AHD Students in different villages of Tiptur and Arsikere Tq	6300
	FMD Vaccination done by AHD Students in different Villages of Tiptur, Chikkanayakanahalli and Arsikere Tq	6453
	Total	1,19,586



8. Diagnostic Services Provided

#	Institution	Diagnostic Services provided	Total No.
1	Veterinary College, Bengaluru	The vetero legal cases referred to the dept. of anatomy, the suspected samples like skins, nails, horns, tusks and bones etc. received were examined and reports submitted to the police and forest/concerned officials.	18
		Faecal sample examination (animals)	95
		Blood smear examination (animals)	340
		Identification of parasites in animals	28
		Small animals treated	36434
		Small animals treated	1734
		Blood samples tested (animals)	2354
		Ultra Sound scanning subjected (animals)	1950
		Antibiotic Sensitivity Testing	1350
		Fecal Sample testing (animals)	1382
		Urine routine examination (Large and Small animals)	2325
		Canine: 173	891
		Bovine: 54	
		Equine: 06	
		Felines: 07	
		Ovine & Caprines: 34	
		Piglets: 19	
		Poultry: 553	
		Laboratory Animals: 19	
		Others: 07	
		Rabies	86
		Exfoliative cytology	61
		Histopatholgy	5400
		Investigated the disease suspected to be caused by plant toxicities at Tarabahalli, Shidlaghatta, Chikkaballapur on 26-05-2015.	26
		Plants identified as toxic to animals	12
		The blood sample from a goat farm at Bannerghatta was tested and found very low percentage of PCV such as 2%, which could be due to hemolytic parasitic disease.	01
		Radiography and C-Arm imaging X-ray (small and large animals)	2,250
		Screening of Mandya sheep flock for routine diseases at LRIC, Nagamangala	-
		Culture and sensitivity test – services provided to Military hospital, Bannerghatta Biological Park and Dept. of Veterinary of Pathology	06 (Cat, Tiger & Equine ear swab-3, Faecal-1, & Chimpanzee-2) Organs of Chick and adult Poultry organs samples-5
		Screening for Animal Brucellosis – services provided	45 Cow blood



	to Dept. of ILFC , Veterinary College, Bengaluru	/ Cattle milk sample-03 / 10 Pig serum samples
	Antibiotic Sensitivity Test – services provided to Dept. of Vety. Medicine, Dept. of ILFC, Bannerghatta park, Dept. of ILFC, Military Hospital	Bovine-milk 11 , 1 pus, blood 3, uterine-1, pus 2, Canine-pustules 4, wound swab 3, Conj. Swab 1, Tiger- faecal 1, swab -1, skin lesion 1, Cat- skin lesion 1, swab 1, Goat- lung 1, liver-1, Equine-pus 1, Sheep-skin lesion-1
	Revolving fund has been created to provide diagnostic services for diagnosis of Rabies during August, 2015 by Dept. of Veterinary Microbiology, Veterinary College, Bengaluru	Charging Rs.3000/- for RFFIT for estimating anti rabies antibodies in serum sample. 80 serum samples received from various parts of India have been processed and results were communicated (An amount of Rs.2,40,000/- generated during the year) Charging Rs. 300/- for DFA for detection of



			rabies virus in brain sample.
		Samples analyzed: Faecal sample (55), Blood sample (18), Ruminal fluid (17), Skin scaping (05), Vginal smear (02), ECG (13), Milk sample (02)	112
		Veterinary Gynaecology and Obstetrics – Diagnostic services provided	1552
2	Veterinary College, Bidar	Radiographs	667
		Ultrasonography	50
		Ophthalmoscopy	08
		Endoscopy	06
		Otoscopy	05
		Post-mortem	145
		ECG	20
		Blood /serum sample/ Haematology	707
		Animal Faecal sample	1240
		Skin scrapings	127
		Microbial & Anti microbial assays	16
		Blood Zoonotic diseases	07
		ABST	54
		Histopathology/ Cytology	00
		Urine analysis	45
		Ruminal fluid	127
		Water Samples	30
		Milk / meat samples	76
		Pus Sample	38
		Pregnancy Diagnosis	229
		Vaginal Cytology	25
3	Veterinary College, Shivamogga	Analysis of clinical, water and food samples (milk, meat, egg) for pathogenic organisms of public health importance, screening for brucellosis, ABST.	120
		Laboratory examination/tests of clinical samples comprising, Faeces, blood, serum, rumen fluid, urine, milk, skin scraping, vaginal mucus, pus, nasal discharge	1271
		Diagnostic services(TVCC & other sources&wild life)	130
		Outside diagnostic services	03
		Blood, Urine, Serum analysis, ECG, USG and Echocardiography	1158
		Post mortem examination Cattle-03, Dogs – 01, Pigs – 02, Sheep and goat - 07	13
		Cytopathology Cattle – 11, Dogs – 22, Sheep and goat – 1, Equine – 2	36
		Post mortem examination Sheep & goat – 08, Pigs – 17, Poultry - 16	41
		Post mortem examination Cattle – 02, Pigs – 01,	26



		v. Mini zoo Adumalleshwara, Chithradurga.	8 faecal samples of Black buck, 2 faecal samples of leopard and 2 faecal samples of peacock.
7	KVK, Dakshina Kannada, Mangaluru	Soil Sample Water Sample Problematic field visit	355 255 16
8	FRIC, Hebbal, Bengaluru	Soil, water and fish health investigation services, feed analysis and plankton analysis	1902 samples were analyzed
9	FRIC, Ankola, Uttar Kannada	Water quality parameters such water temperature, P ^H , Salinity	18
10	FRIC, Bhutnal	Diagnosis of moribund fish of Bhutnal Tank, Bhima river, Villages around sindagi taluka	08
11	LRIC, Nagamangala	Disease diagnosis	95
12	AHP, Konehalli	Screening Fecal Samples of Amrithmahal Cattle, Sheep, Goat, Pig and Cross breed Animals of LRIC (A), Konehalli.	165
		Blood examination for hemoglobin estimation in Amrithmahal cattle and cross breed cows	34
		Examination of Skin Scrapings	25
		Milk Adulteration Test	15
13	AHP, Shiggaon	Blood, Urine and milk sample examinations	45
14	CRIC, Mudhol	Ultrasonography for scanning	22
Total			72,540



9. Supply of chicks/animals/fish/fodder seeds/root slips/other farm produce to farmers

#	Department/Farm	Supplied item and Quantity	Remarks (Amount Collected-Rs)
1	Veterinary College, Bengaluru	<u>Department of ILFC:</u> Male calves – 7, Sheep – 17, Piglets – 242, Root slips - 38250, Fodder seeds - Rs. 28000/-, Sales of Broiler rabbits -129 No., Sale of laboratory animals and Broiler rabbits – No. 503	Supplied to farmers
		<u>Department of Poultry Science:</u>	
		Day old chicks:110657+1897	16,59,855.00
		Day old parent chicks :9400+124	11,75,000.00
		Hatching eggs:9533	7,65,049.00
		Table eggs: 26678	95,125.50
		Broken eggs: 3431	7,146.00
		Feed:117887.5 kgs	27,51,229.50
		Manure: 30.67 tons	4,600.50
		Birds: 11451 (21374.80 kgs)	16,85,685.00
		Paddy husk:45 kgs	418.50
		Gunny bags -	11,441.00
		1 st week day old chicks: 527	14,756.00
		2 nd week day old chicks: 5969	2,08,915.00
		3 rd week day old chicks: 4599	2,06,955.00
		4 th week day old chicks: 16902	9,43,880.00
		5 th week day old chicks: 1309	91,630.00
Others	54,613.00		
	Total	96,76,299.00	
2	Veterinary College, Bidar	<u>Department of ILFC:</u>	
		Milk : 9184.7 liters	2,47,918.00
		Sale of root slips	150.00
		Sale of livestock	1,73,674.00
		Egg : 1681	3127.00
		Cashewnut Plantation	4000.00
		Mango Auction	22,000.00
	TOTAL	4,50,869.00	
3	Veterinary College, Shivamogga	<u>ILFC, Poultry farm:</u> 4,000 Giriraja birds (4 week old)	Through AH &VS, GOK
		<u>ILFC, Piggery farm:</u> 136 large white yorkshire, pigs/piglets	Sold to farmers
		<u>ILFC, Sheep farm:</u> Sheep and Goat-12	Sold to farmers
		<u>ILFC fodder unit</u> 8.0 ton of dry paddy straw / 100 quintals of maize, dry maize straw and after threshing cobs waste	-
		<u>ILFC Dairy farm:</u> Supplied milk work about Rs. 2,90,000	Sold to Hostel, Dept. of LPT and KMF



4	Veterinary College, Hassan	Pigs	241
		Sheep	10
		Rabbit	52
		Poultry	179
		Fodder	1855
		Milk	10560lts
5	Dairy Science College, Kalaburgi	Goat- 30	-
6	College of Fisheries, Mangaluru	Department of Aquaculture: Supplied fish seeds of Catla : 17500 nos, Rohu : 13000, Common carp : 16,000, Guppies: 3000, Koi :1500, Gold fish : 500, Angles : 300, Mollies : 300, Platies : 250, Gouramies : 350 nos. to farmers and public	-
7	KVK, Dakshina Kannada	Poultry Birds - 3209 Nos / Pig&Piglets - 41 Nos / Ornamental fish - 312 Nos / CO4 Fodder cuttings - 100 Nos / MO4 Paddy seeds - 2340 Kgs. / Cowpea seeds - 0.100 gm / Bhendi Seeds - 0.475 gm / Papaya Seedlings - 184 Nos/ Trichoderma - 89.50 Kgs / Earth warms - 1.250 gms / FYM - 263 CFT / Bulk Paddy - 1720 Kgs / Coconuts - 7873 Nos / Blackgram - 21 Kgs / Greengram -23 Kg / Milk - 17464.50 Ltrs. / Ridge gourd - 80 Kgs / Bottle Guard - 69 Kg. / Bhendi veg. - 201 Kg. / Papaya - 173 Kg. / Cocomber - 54 Kg. / Cowpea - 34.50 Kg. / Amaranth Leaves - 46 Kg. / Green gram - 23 Kg. / Bringal - 15 Kg. / Watermelon - 15 Kg.	-
8	FRIC, Hebbal	Fish seed - 3,39,985 Nos. Ornamental fish - 14,746 Nos.	-
9	FRIC, Hesaraghatta	Fish seed - 2,05,835 Nos. Ornamental fish - 29,245 Nos.	-
10	FRIC, Bhutnal	Fish Seed 241686 Nos.	2,47,198/-
11	LRIC, Konehalli		
12	LRIC, Nagamangala	Root slips - 250 / Elite Rams - 50	-
13	LRIC, Hallikhed	Fodder root slips - 52,000 / Lucerne seeds - 32 kg	-
14	LRIC, Konehalli	Largewite Yorkshire Piglets - 138 / Root slips - 300 / Sheep - 01 / Goat - 04 / Sick sow - 16 / Calves - 03	-
15	CRIC, Mudhol	Mudhol hound pups-296 (130M & 166F)	-
16	AHP, Konehalli	Lucerne seed, hybrid nappier root slips, Susbenia and moringa saplings	55 beneficiaries were benefited
17	AHP, Shiggaon	Mudhol hound puppies - 9	50,500/-
		Guinea pigs - 1	-
		Eggs	35
		Vermicompost - 1.5 tonnes	-



10. Consultancy / Advisory Services

#	College / Institute	Total Number	Remarks
1	Veterinary College, Bengaluru	3435	Areas covered – Dairy, Sheep & goat husbandry, Piggery, Rabbit production, laboratory animal facility establishment & Fodder production, Feeding/ Management/ Breeding/ Treatment/ Ext/ economics/ others/ Disease investigations etc.,
		01	Export Inspection Agency (EIA) – Kochi, Govt. of India. On request Assessment of the Processing Establishment of Provimi Animal Nutrition India Pvt. Ltd., Bengaluru on 1 st August, 2015.
		107	Consultancy /Advisory services Statistical consultancy services is provided to the PGs, Ph.D scholars and faculty members of our university colleges.
		20	Consultancy services by Dept. of Veterinary Parasitology
		02	“Diseases Communicable from Animals to Man” as a part of World Zoonoses Day and to create awareness among school children.
		245	Poultry farmers visited the Department Mortality / disease investigation
		47	Dairy farmers visited the Department Mortality / disease investigation
		195	Pet owners visited the Department Mortality / disease investigation
		156	Advise was given to field Veterinarians and farmers for the treatment and prevention of various toxicities over the phone
		200	Addressed the field problems faced by farmers and field Veterinarians, personally by Phone, email & SMS.
		10	Visit to zoos, villages, university farms etc.
		08	Infertility in Buffaloes & Repeat breeding in cattle
		2	Veterinary College, Bidar
1000	Breeding		
1209	Treatment		
25,287	Ext/ economics/online sources/ others		
102	Disease investigations		
3	Veterinary College, Shivamogga	-	Guidance given on Meat abattoirs & components, HACCP, Pathogenic organisms, Slaughter and further processing of meat has given that would help in completion of project work “Preliminary survey of clean meat production in Shivamogga” by Sahyadri College, BSc Students
		-	Management of Nux-Vomica poisoning in buffaloes
		-	Treatment and management of Amitraz toxicity in crossbred cattle
		-	Information regarding procedure and methodologies of sample collection and dispatch for forensic analysis
		-	Information regarding procedure of sending samples for forensic analysis (zinc phosphide suspected)
		-	Management of Nux vomica toxicity in Bullocks



		-	Acetamiprid toxicity in a bullock
		-	Care and management Lantana camera toxicity in sheep.
		-	Care and management of Lantana camera poisoning in Sheep.
		-	Care and management of Sheeps ailing from Lantana camera toxicity
		-	Therapeutic management of tomato plant leaves toxicity in dog.
		-	Therapeutic management of overdose of Ivermectin (p.o) in Dog.
		-	Surgical intervention for fracture immobilization in a Tiger
		-	Regarding diagnosis of parasitic diseases and their treatment
4	Veterinary College, Hassan	960	Through telephone, farm and home visit, Office
5	Dairy Science College, Bengaluru	1	Problem Associated with paneer preparation
		1	Consultation about cheese production on a commercial scale
		1	Consultation on making butter spreads
		1	Quality improvement of peda, improvement of yield in paneer
		1	Paneer and cheese production
		1	Setting up dairy Products production unit
		1	Setting up of a dairy product plant
		1	Utilization of skim milk
		1	Given instructions regarding the maintenance of starter cultures for 2 PG Microbiology students of Brindavan College.
		3	1. Kolar-Chikkaballapur Milk Union on 13-04-2015 2. Bengaluru Milk Union Ltd. (BAMUL), Bengaluru on 07-05-2015 3. Bengaluru Milk Union Ltd. (BAMUL), Bengaluru on 24-09-2015
6	College of Fisheries, Mangaluru	121	Fish farming, pond construction, health management and diagnosis of diseases
		458	Analysis of samples of water, ETP samples, shrimp, milk etc for ophysical, chemical and microbiological parameters.
7	IWVR, Kodagu	5	-
8	KVK, Dakshina Kannada	1610	Consultancy provided to farmers through Telephone on Technical aspects of Agriculture and allied enterprises
9	FRIC, Hebbal	187 farmers	Fish culture, disease, fish mortality in tanks, ornamental fishes
10	FRIC, Hesaraghatta	105 farmers	Fish culture, disease, fish mortality in tanks and Pond construction, fish culture in ponds and tanks, disease, etc.
11	FRIC, Ankola	06	Water quality, Tidal chart information, Mangroves, shrimp farming, Crab farming



12	FRIC, Bhutnal	1334	Information about fish farming, pond construction, water quality aspects, availability of traditional feed, Utilization of fish of edible and Non edible parts in preparing value added products, etc
13	LRIC, Konehalli	247	Advisory Service was given to the farmers on Fisheries, Dairy Farming, Sheep and Goat Farming, Piggery Farming and Integrated Farming System
14	LRIC, Nagamangala	444	Scientific livestock management practices
15	LRIC, Hallikhed	93	Scientific livestock management practices
16	AHP, Konehalli	80	Advisory Service was given to the farmers on Dairy Farming, Poultry Farming, Sheep and Goat Farming, Piggery Farming and Integrated Farming System
17	AHP, Shiggaon	45	Various aspects of Animal Husbandry and Veterinary Services

11. Activities on Village/Farm Adoption

VETERINARY COLLEGE, BENGALURU

- Dr. Umesh Chandra Sharma , President, Veterinary Council of India along with team from Veterinary College, Bengaluru visited adopted village Yeliyuru on July 17th, 2015 and interacted with Members of Milk Cooperative Society, Yeliyuru. He also visited Integrated Farm of Farmer Mr. Venu and saw the fodder plantation done by the milk society members promoted by Veterinary College, Bengaluru.
- Conducted two fertility camps and health camp for Dairy animals and suggested suitable remedy and follow-up treatment.
- Deworming of sheep and goats done during the health camps.

VETERINARY COLLEGE, BIDAR

Weekly visits to the adopted village (Kangankot) and regular visits of Clinical Departments to provide the necessary technical, diagnostic and treatment related services

The ambulatory clinical service has been continued in the adopted village during the year 2015-16

VETERINARY COLLEGE, SHIVAMOGGA

Ambulatory Clinical services were provided on every Friday and Saturday at Tyjavalli village, Shivamogga Tq. (from 01/04/2015 to 08/08/2015) on every Monday and Tuesday at Devakathikoppa village (from 01/04/2015 to 07/04/2015) and on every Monday and Tuesday at Sugur Village (from 08/06/2015 to 31/03/2016), Shivamogga Dt, through ambulatory visits by the TVCC and the staff of clinical departments. Treatment of sick animals, deworming, ectoparasitic control, minor surgical treatment, pregnancy diagnosis, examination and treatment for gynecological problems such as repeat breeding, anoestrus and metritis were being made.

- Sugur village has been adapted for ambulatory clinical service
- Weekly twice (Monday & Tuesday) Gynaecoco clinical services being provided provided



VETERINARY COLLEGE, HASSAN

Extension activities were carried out in Halekoppalu village of Hassan taluk. Regular ambulatory services were provided on Monday and Thursday of the week. Animal health camps with focus on Calf Health and infertility were carried out. Staff research projects namely, Promotion of intensive cultivation of Sesbania and Erythrina fodder tree crops for improving the efficiency of production of Dairy Cattle in Hassan taluk; Utilization of COFS29 for fodder and seed production in Hassan taluk and Implementation of clean milk Production Practices at the village level were carried out in the adopted village. Likewise, a demonstration on effect of calf starter feed in calf management was done. The service will be continued in the current year also.

COLLEGE OF FISHERIES, MANGALURU

Organized NSS/Village Stay Camp for IV BfSc students at Bengre for 7 days from 24 to 30 April, 2015 in collaboration with Bengre Mahajana Sabha and Bengre Vidyarthi Sangha, Mangaluru by Dr. A.T. Ramachandra Naik, NSS Programme Officer

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

SI. No.	Name of the Animal Disease Diagnostic Laboratory & Information Centre	Name of the village adopted
1	ADDL & IC, Mysuru	Mellahalli Village of Mysuru Taluk, Mysuru District
2	ADDL & IC, Ballari	Halakundi Village of Ballari Taluk, Ballari District
3	ADDL & IC, Mangaluru	Moodusidde Village of Mangaluru Taluk, Mangaluru District
4	ADDL & IC, Shivamogga	Hosahalli Village of Shivamogga Taluk, Shivamogga District
5	ADDL & IC, Kalaburagi	Srinivasa Saradagi Village of Kalaburagi Taluk, Kalaburagi District
6	ADDL & IC, Bidar	Asattagi Village of Bidar Taluk, Bidar District
7	ADDL & IC, Belgaum	Shinadoli Village of Belgaum Taluk, Belgaum District
8	ADDL & IC, Davangere	Naganuru Village of Davangere Taluk, Davangere District

In the villages adopted by ADDL&IC, Regional Research Officers are involved in

1. Involved in complete vaccination programme.
2. Conducting awareness programme about diseases and vaccination at farmer's door.
3. Conducting Animal Health camps.

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

a) On Farm Testing (OFT) Implemented:

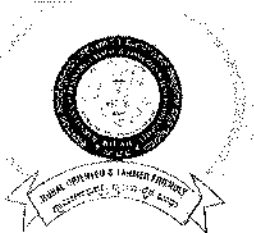
SI. No.	Title of OFT	No. of trials	Area (ha.)	Villages	Taluk
1	Management of Quick wilt in pepper	5	0.5	Nooji	Puttur



2	Assessment of Paired row planting system in Banana Var. Puttbale/Kadali	5	0.5	Kajoor	Belthangady
3	Assessment of High Yielding Ginger variety	5	1.0	Machina	Belthangady

b) Front Line Demonstrations (FLDs) Implemented:

Sl. No.	Title of FLD	No. of Demo	Area (ha.)	Villages	Taluk
1	ICM in Paddy	10	4	Kaliya village	Belthangady
2	Ornamental fish breeding and rearing	04	-	Badaganur, Paduvannur, Kodimbady, Bellare	Puttur Sullia
3	Composite fish culture of carps	04	0.4	Amtur, Bellare, Murullia, Venoor	Bantwala, Sullia Belthangady
4	Integration of fish with poultry farming	04	0.4	Badaganur, Kombaragrama Bellare	Puttur Sullia
5	Integrated Crop Management in Pepper	05	1.0	Uppinangadi	Puttur
6	Integrated Crop Management in Coconut	05	1.0	Majnadi	Mangaluru
7	Pratyasa Short duration Paddy variety for rabi season	05	1.0	Kaliya village	Belthangady
8	Integrated crop Management in Jasmine	05	0.5	Tenkamijar(Nroodi)	Mangaluru
9	High Yielding variety of cowpea (Arka Mangala)	05	0.5	Odinal	Belthangady
10	Management in Yellow vein mosaic in Bhendi	10	0.4	Belvai	Mangaluru
11	Rearing of Swarnadhara poultry birds in backyard	10	-	Alankaar, Herebandade, Punacha, Kunthur, Balnadu, Nelyade	Puttur
12	Multicut Perennial Fodder Sorghum CoFS-29	10	0.4	Nellur Kemraje	Sullia
13	Short duration Fodder cowpea MFC-09-01	10	0.4	Nellur Kemraje	Sullia
14	Integrated crop management in Banana	05	1.0	Kavu village	Puttur
15	Management of Inflorescence dieback and inflorescence caterpillar in arecanut	05	1.0	Hosangady	Bantwal



c) Front Line Demonstrations (FLDs) Implemented under NFSM

Sl. No.	Title of FLD	No. of Demo	Area (ha.)	Villages	Taluk
1	Short duration greengram Var. BGS-9 for paddy followes	25	10	Kajoor, Naravi	Belthangady

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI, TIPTUR

Livestock Survey Conducted by Animal Husbandry Diploma Students in Hale Konehalli, shankari koppalu village.

Treated Ailing Animals of the Surrounding villages of the Institution.

Advisory services were given on clean milk production to the farmers of the Surrounding villages

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

A village Ranatur, Tq. Shirahatti, Dist. Gadag is adopted to make it a Model Animal Husbandry Village. 3 M concept viz., Model Farmer, Model Group and Model Village concept with regard to Animal Husbandry was attempted in collaboration with Dept. of Animal Husbandry & Veterinary Services and KMF.

FISHERIES RESEARCH & INFORMATION CENTER, HEBBAL, BENGALURU

Dr. K.N.Prabhudeva, has been visiting RH Camp, Sindhanur in Raichur district for the past 16 years and has adopted the fish farmers guiding them to avail bank loan from DCC bank, Sindhanur take up fish farming.

CANINE RESEARCH AND INFORMATION CENTRE, TIMMAPUR, MUDHOL

Timmapur village was adopted in current year to encourage the farmers to rear the Mudhol hounds.

Under SCP-TSP scheme 6 beneficiaries were provided with Pups (6 M + 6F) along with Food and Other supplements for one year.

Among the 6 females all have reached puberty and successfully mated and conceived.

One of female has given birth to 6F+1M with projected income of 42 thousand. Hence, enhancing the livelihood of the farmer.

Mudhol Hound to India Army, RVC Meerut (UP):

06 dogs (03 Male & 03 Female) were handed over by Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar to Remount Veterinary Centre and College, Meerut for feasibility trial for induction into India Military by Dr. Yathiraj, Dean, Veterinary College, Bengaluru

Already the pre assessment of dogs has been carried out at ground level by Lt.Karnal Surinder Saini at Canine Research and Information Centre, Mudhol, Bagalkot during the third week of January.

Dogs here receive training on specialized jobs like explosive detection, mine detection, tracking, guarding etc.



12. Distinguished Visitors to the Institutes

#	Name, Designation & Institute	Date	Purpose
VETERINARY COLLEGE, BENGALURU			
1	D.V. Prasad, Addl. Chief Secretary, GoK.	10.02.2016	For treatment of their cat
2	Scientists from National Bureau of Agricultural Insect Resources, Bengaluru	11.03.2015	To see the facilities and to have collaboration
3	Sri. Jaychandra, T. B., Hon'ble Minister for Law, Justice & Human Rights, Parliamentary Affairs & Legislation, Animal Husbandry and Muzarai., Dr. C. Renukaprasad, Hon'ble Vice Chancellor, KVAFSU, Bidar, Dr. Channappa Gowda, N. S., I.A.S., Principal Secretary, Dept. of Animal Husbandry, Prof. H. M. Jayaprakash, Registrar, KVAFSU, Bidar Sri. S. Shekar (IFS), Commissioner, Dept. of AH & VS, GoK, Dr. Sayed Ahmed, Director, Dept. of AH & VS, GoK, and Members of Board Management of KVAFSU, Nandinagar, Bidar	27.08.2015	Inauguration of Large Animal X-ray Unit and Anesthetic unit under Niche Area Project
4	Dr. Umesh Chandra Sharma, President, Veterinary Council of India Dr. Umesh Kumar Mishra, Hon'ble Vice-Chancellor, Chhattisgarh Kamdhenu Vishwavidyala, Durg & Member, Veterinary Council of India Dr. Gurdial Singh, Chairman, Education Committee, Veterinary Council of India.		To attend the meeting of Veterinary Council of India and inspected the facilities at the College
5	Mr. Alfred Wahl from Polar Genetics	25.11.2015	Delivered a talk on "Artificial Insemination in Swine: Experience in Canada"
6	Dr. Sanjay Nikam, General Manager – Dairy & Aqua, India, Alltech Research Alliance Dr. Pradeep Mahajan, Dairy Consultant, Alltech Research Alliance Dr. Aman Sayed, General Manager, South Asia, Alltech Research Alliance	06.11.2015	Visited the Alltech Lab and attended the meeting to review the progress of the project
VETERINARY COLLEGE, BIDAR			
1	Dr. Vasudevappa, Vice Chancellor, UAHS, Shivamogga	14.01.2016	Speaker on University Foundation day
2	Prof. Shetty, UGC Review Committee, Govt. of Karnataka	27 th to 29 th Jan. 2016	University Review Committee on education, finance and Examination
3	Prof. Coutinho, UGC Review Committee, Govt. of Karnataka		
4	Prof. Mahadevappa, UGC Review Committee, Govt. of Karnataka		
5	Prof. Ratnamma, UGC Review Committee, Govt. of Karnataka		



6	Dr. Srinivas Kaveri, Director, CNRS, French Embassy, New Delhi	04.03.2016	Guest speaker for Dr. RD Nanjiah Lecture series
7	Dr. Uppoor Krishnamoorthy, Senior Lecturer, Department of Food Production, Faculty of Food and Agriculture, The University of the West Indies, St. Augustine, Trinidad and Tobago.	14.0 1.20 16	To discuss and planning of establishment of facilities for in-vitro studies at Dept. of Animal Nutrition, VC, Bidar
8	Dr. Tukaram Hande, Member, Veterinary Council of India, New Delhi	17-18 th July, 2015	Inspection of all the facilities like human resource, infrastructure, hostel etc. in Veterinary College, Bidar
VETERINARY COLLEGE, SHIVAMOGGA			
1	Sri. A.Manju Hon'ble Minister for Animal Husbandry & Fisheries	02.12.2015	Review of progress of Veterinary College Shivamogga
2	Principal Secretary, Department of Animal Husbandry & Veterinary Services, GoK	05.12.2015	Review of progress of Veterinary College Shivamogga
3	Hon'ble Vice Chancellor & Register, KVAFSU, Bidar	06.02.2016	Review of progress of Veterinary College Shivamogga
VETERINARY COLLEGE, HASSAN			
1	Sri. A. Manju, Hon'ble Minister of Animal Husbandry and Fisheries	07.01.2016	Inauguration of college, buildings
2	Dr. Abdul Rahman, President, Commonwealth Veterinary Association	07.01.2016	R. D. Nanjiah memorial lecture
3	Actor Nirup Bhandari	22.02.2016	Vet Fest 2016
4	Shri. H.S. Prakash, MLA, Hassan	20.03.2016	Inaugural of dog show
COLLEGE OF FISHERIES, MANGALURU			
1	Dr. Rajesh Padekal, Managing Trustee, Pranava Health Centre, Mangaluru.	20.06.2015	Chief Guest at International Yoga Day Celebration.
2	Smt. Prabhavathi Rao, Programme Coordinator, WTO and IPR Cell, VTPC, Dept of Industries and Commerce, Govt of Karnataka.	23.06.2015	Resource person for workshop on Innovation management, IPR and WTO: Significance for academia and its use in business and research.
3	Mr. Raghu Ram, Consultant, WTO and IPR Cell, VTPC, Dept of Industries and Commerce, Govt of Karnataka.	23.06.2015	Resource person for workshop on Innovation management, IPR and WTO: Significance for academia and its use in business and research
4	Dr. Farah Deeba, Specialist and Consultant- WTO and IPR Cell, VTPC, Dept of Industries and	23.06.2015	Resource person for workshop on



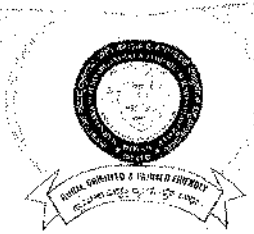
	Commerce, Govt of Karnataka.		Innovation management, IPR and WTO: Significance for academia and its use in business and research.
5	Dr. S. Ramamurthy, Professor and Head, Centre for Emerging Technologies, Jain University, Bengaluru	23.06.2015	Resource person for workshop on Innovation management, IPR and WTO: Significance for academia and its use in business and research.
6	Dr. V V Nayak, Former Professor, Marine Biology Centre, Karwar	25.06.2015	Chief Guest for World ocean day and International biodiversity day celebration.
7	Dr. Vinod Kumar, Research Scientist, UMCG, Netherlands (Alumnus of COFM)	11.07.2015	Campus visit and delivered a talk.
8	Dr. K V Rao, Science officer, Pilikula science centre, Mangaluru	08.09.2015	Chief Guest for Teachers Day Celebration.
9	Shri. C. K Gopal, General Manager, Corporation Bank, Head Office, Mangaluru	15.10.2015	Chief Guest for Fresher's Day celebration.
10	Shri. Abhayachandra Jain, Hon'le Minister for Youth Affairs and Fisheries, Govt of Karnataka.	19.10.2015	Inauguration of KVAFSU Youth Festival: Waves 2015.
11	Dr. Uday Kumar Yeragatti, Dean, Student Welfare, NITK, Surathkal.	19.11.2015	Chief guest for Kannada Rajyothsava celebration.
12	Sri Channappa Gowda, Principal Secretary, GoK Karnataka	20.11.2015	Campus Visit
13	Shri. Ashok Kumar Angurana, Secretary, Dept of agriculture, Animal Husbandary and Fisheries, ministry of agriculture, Govt of India, New Delhi	04.12.2015	Campus visit
14	Dr. Mannohan Singh, Principle Secretary, Dept of Animal Husbandary, Govt of Andhra Pradesh	04.12.2015	Campus visit
15	Dr. Vijayakumar Baragi (Alumnus) working in USA	29.12.2015	Campus visit
16	Sri Satish Jarkiholi, Hon'ble Minister of Small Scale Industries, GoK	28.12.2015	Campus Visit
17	Dr. Shantharam Shetty, Pro-Chancellor, Nitte University, Mangaluru	08.02.2016	Inauguration of National Workshop on Aquatic Medicine.
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU			
1	Dr. Srinivas Kaveri Director INSERM, France	27.02.2016	-



2	Sri. Channeppa Gowda Principal Secretary Department of Animal Husbandry & Fisheries Govt. of Karnataka	31.03.2016	-
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA			
1	Dr. M. J. Chandre Gouda, Principal Scientist(Agriculture Extension) ZPD, ZONE VIII, Hebbal Bengaluru	01.04.2015	To Asses the Progress mode in Mandatory activities of KVK
2	AVR Keshava Rao, Scientist (Agro climatology) ICRISAT Development centre, PATANCHERU, Hyderabad	28.04.2015	To Participate in Bhoochetana workshop organized by KSDA and Deliver a lecture on climate change.
3	Dr. T.N. Prakash Kamaraddi, Chairman, Agril. Price commission, Karnataka Govt. Bengaluru	02.05.2015	Meeting on agricultural prices
4	Dr. Kempegouda, JDA, D.K. Mangaluru		
5	Shri Yogish H.R. DDH, DK. Zilla Panchyath, Mangaluru		
6	Shri. S. Rajashekharan, Assistant Director of Agriculture, Senderai (Block) Ariyalur District, Tamil Nadu.	30.05.2015	Exposure visit TN- IAMWARM Programme.
7	Shri Nalin Kumar Katil, M.P., D.K. Mangaluru	27.06.2015	Participation in V th Annual Jackfruit Mela-2015
8	Smt. Asha Timmapa gowda, President, DK, Zilla Panchyath, Mangaluru		
9	Shri Sampath Sambrajya, President, Krishika Samaja, DK, Mangaluru		
10	Shri Sathisha Kumpala, Vice President, DK, Zilla Panchyath, Mangaluru		
11	Smt. Shrividya, Chief Executive Officer, DK, Zilla Panchyath, Mangaluru		
12	Shri G.V. Prabhu, AGM, Canara Banak, Mangaluru		
13	Dr. H. Kempegowda, Joint Director of Agriculture, DK, Mangaluru	28.06.2015	
14	Shri. H.R. Yogish, Deputy Director, Horticulture Dept. D.K. Mangaluru		
15	Sri Iresh Anchatageri, Board of Management, KVAFSU, Bidar	28.09.2015	Participation in Agriculture Awareness Programme for the farmers
16	Shri Nalin Kumar Katil, M.P. D.K. Mangaluru		
17	Shri Sathish Kumpala, Vice President, D.K. Zilla Panchayth, Mangaluru		
18	Shri Balakrishna Suvarna, President of Standing committe on Agriculture & Indusric, D.K. Zilla Panchayth, Mangaluru		
19	Smt. Shrividya, Cheif Executive Officer, D.K. Zilla Panchayth, Mangaluru		
20	Dr. H. Kempegowda, Joint Director of Agriculture. D.K., Mangaluru		
21	Dr. Thippeswamy, Dept. Director, Dept. Of Animal Helath & Veterinary Science, D.K., Mangaluru	28.09.2015	
22	Smt. Susmitha Rao, Assistant Director of Fisheries, D.K., Mangaluru		



FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU			
1	Dr. C. N. Ravishankar, Director, CIFT, Cochin	02.09.2015	To discuss collaborative programmes
2	Dr. Venkatesh, CF, LDA, GOK	16.09.2015	To see lab and farm facilities
3	Dr. R.K. Singh Prinscipal Secretary, Biodiversity Board	22.09.2015	Had a meeting on Biodiversity of fishes of Karnataka
4	Dr. S. M. Salimath, Vice Chancellor, UAS, Raichur	22.10.2015	To see lab and farm facilities
5	Mr. Kamaljith Singh, Regional Director, ICCR, Bengaluru	13.01.2016	To facilitate visit of delegates from Pacific Island countries
6	Mr. Gourav Guptha, Officer, Ministry of External Affairs, New Delhi	15.02.2016	Accompanied distinguished delegates from Pacific Island countries
7	Ms Lusiana Fotofili, Director Heritage and Arts, Ministry of Education, Fiji	15.02.2016	To know the institutional facilities for fisheries education
8	Ms Meretui Ratunabuabua, Director, Fiji Museum, Fiji	15.02.2016	To know the institutional facilities for fisheries education
9	Sosefo Fe'aomoeata Vakata, Minister for Internal Affairs, Tonga	15.02.2016	To know the institutional facilities for fisheries education
10	Ms Elsie Fukofuka, Trade, Tonga Senior Assistant Secretary, Ministry of Foreign Affairs and	15.02.2016	To know the institutional facilities for fisheries education
11	Mr. Hazelman Roger Francis Xavier, General Manager, National Kidney Foundation, Samoa.	15.02.2016	To know the institutional facilities for fisheries education
12	Dr. (Mr) Take Kolisi Naseri, Director General for the Ministry of Health, Samoa.	15.02.2016	To know the institutional facilities for fisheries education
13	Mr. Pokotoa Sipeli, Minister for Social Service, Niue.	15.02.2016	To know the institutional facilities for fisheries education
14	Mrs Sapatī Sipeli, Niue Chairmen Niue	15.02.2016	To know the institutional facilities for fisheries education
15	Ms Christine Ogotu Lohana Ioane, Secretary to Minister, Niue	15.02.2016	To know the institutional facilities for fisheries education
16	Mr. Nagora Bogan, KBE Chairman & CEO of in-Touch Media Ltd. Papua New Guinea	15.02.2016	To know the institutional facilities for fisheries education



17	Ms Janet Kaki Sape, Executive Director, P;NG Women in Business, Papua New Guinea	15.02.2016	To know the institutional facilities for fisheries education
18	Mr. Joseph Atkin, Assistant Secretary (ag) for Asia Africa and Middle East desk, Solomon Island	15.02.2016	To know the institutional facilities for fisheries education
FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA			
1	Mr.Thimmappa M.H Asst.Director of Fisheries(G-II)Dept. of Fisheries, Ankola	1.04.2015 10.07.2015 15.10.2015 13.01.2016	Information gathering with regard to Fish species. Fish farmers day/training conducting & resource person
2	Dr.Samir R Damare Scientist,NIO,Goa	19.05.2015	Survey of green muscle
3	Dr.Domna Desouza Tilo Lecture, Dheme College of Arts and Science,Miramar,Goa	19.05.2015	Survey of green muscle
4	Dr.G.V.Nayak Professor & Head ARS,Kumata	30.06.2015	Paddy cultivation plot observation
5	Dr.Satish R.G Asst.Professor College of Forestry,Sirsi	30.06.2015	Soil sample collection
6	Shri R.T.Mirashi Shrimp farmers & Ex ZP member, Ankola	10.07.2015	Fish farmers day guest speaker
7	Dr.K.V.Basavakumar Professor of Fisheries DOR,UAS,Dharward	9.10.2015 13.10.2015	B.Sc.(Ag) II year students field visit (Total no. of students:240)
8	Dr.Prakash Mesta CES,IISc Field Station Kumata	16.11.2015	Mangrove area visit
9	Mr.Kiran B.D Asst.Director of Fisheries (G-II),Dept. Of Fisheries,Kumata	15.12.2015	Training purpose
10	Mr.Ravi M Asst.Director of Fisheries (G-II),Dept. Of Fisheries,Sirsi	15.12.2015	Training purpose
11	Mr.Venkatrama Hegde Asst.Director of Fisheries(G-I),Dept. of Fisheries,karwar	15.12.2015 13.01.2016	Training purpose
12	Mr.Subhas K Naik Head Master Dr.Dinakar Desai Memorial Primary School, Ankola	30.12.2015	Field Visit to School children 311 nos. from 1 st to 7 th Std.
13	Mr.Ravindra N Talekar Asst.Director of Fisheries (G-II),Dept. Of Fisheries,Haliyal	13.01.2016	Training purpose



14	Mr.S.V.Kulkarni Asst.Director of Fisheries(G-1),Dept. of Fisheries,karwar	13.01.2016	Training purpose
15	Dr. Jayasree Loka Senior Scientist CMFRI-Karwar Research Centre,Karwar	29.02.2016	Resource person for Cage Aquaculture training
16	Dr.K.K.Philipose Project Coridinator AINP_Mariculture CMFRI-Karwar Research Centre,Karwar	17.03.2016	AINP –Mariculture project work
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA			
1	Shri. Chandrshekar, Manager Canara Bank, Vijayapura.	29.07.2015	Chief guest for training Programme
2	Dr. Kadkol, Nerologist, Health city, Vijayapura.	13.07.2015	Ornamental fish
3	Kum. Hebasibarani Koralpatti, CEO, ZP, Vijayapura.	14.08.2015	Chief guest for training Programme
4	Dr. Rajshekar, DD Agri, Vijayapura.	14.08.2015	Guest for training Programme
5	Shri. Shirinivas, Executive engineer, Water Board, Vijayapura.	15.08.2015	Gathering information for ornamental fishes.
6	Shri. H.C. Hemanthraju, DD, Fisheries Belugum Division.	29.08.2015	Causal visit
7	Mr. Cholin, Programme Coordinator AIR, Vijayapura.	04.11.2015	Guest for training Programme
8	Dr. Manjunath.B, Joint Director, Agriculture, Vijayapura.	27.02.2016	Guest for training Programme.
9	Professor. A.A. Nasir, Professor N.D. Bavoov, Professor. S.G. Maldar and Professor. Smt. A.M.Chodari HOD, Zoology, Anjuman, Arts sciences and commerce, Vijayapura	07.01.2016	For organizing certificate course
LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI			
1	Dr M.S. Palegar, Deputy Director, Kunikenahalli farm, Tumkur	20.07.2015	Farm visit and to collect saplings of fodder varieties from LRIC (A), Konehalli
2	Dr. Madhusudhana A CVO (Admin), Habbangatta Kaval, Borankoplu	21.07.2015	Discussion regarding land area of Amrithmahal Kaval
3	C. R. Thejomurthy Superintendent, AH&VS, Birur	21.07.2015	Investigation regarding Amrithmahal Kaval Development Project
4	Dr. K.V. Halagappa Joint Director, Amrithmahal Farm, Birur Chikkamagaluru Dist.	21.07.2015	Investigation regarding Amrithmahal Kaval Development Project
ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI, TIPTUR			
1	Deputy-Director Hallikar Cattel Breeding Station Kunikenahalli, Tumkur	20.07.2015	Visited animal husbandry polytechnic and received different varieties of Root slips, cactus and fodder seeds
2	H.L. Shankar Murty Assistant Director of Social Welfare Office Tiptur	22.12.2015	Visited to receive information regarding SC/ST students activities



13. Activities of Directorate of Extension, KVAFSU, Bidar & Important decisions taken during Extension Education Council Meeting

Extension activities carried out by the Directorate of Extension during 2014-15

A Mega Mathsya Mela along with “Krishi, Totagarike and Jaanuvuru Mela-2015” held at KVK, Janawada, Bidar during 11-13th December, 2015

A mega Mathsya Mela was organized at KVK, Bidar by the Karnataka, Veterinary, Animal and Fisheries Sciences University, Bidar with the financial support from the Department of Fisheries, Government of Karnataka, Bengaluru as part of Krishi Mela during 11-13th December, 2015. The mela attracted thousands of people including farmers, public and school children. It was described as one of the biggest mela held in Hyderabad-Karnataka Region as mentioned in media.

The highlight of the mela was display of colorful very rare ornamental fishes obtained from Shivamogga, Bengaluru and Kolkatta. It was an opportunity for school children to observe the beauty and diversity of aquatic life of which they only had text book knowledge. More than 60 molded aquariums of different sizes were on display. The alligator gar was the center of attraction as it was very rare species. In the mela, three ‘Best Fish Farmer’ awards were given away (Mr. Srinivasrao, Sindhanoor; Mr. Chandrashekhar, Vijayapura and Smt. Shobha Veerabhadrapa Patil, Kalaburgi). These farmers shared their experiences in fish culture.

Besides, about 30 large and small animals such as cows, buffaloes, goats, sheep and horses were on display. These animals attracted the attention of farmers and they had exchanges of information about their performance. Overall, the mela was a huge success in that more than one lakh farmers and public benefited from the show. The electronic media and the press gave a wide publicity on all the three days of the mela.

A Mega Mathsya Mela-2015” held at Mangaluru during 4-6th March, 2016

A mega Mathsya Mela was organized at Mangaluru by the Directorate of Extension and College of Fisheries, Mangaluru with the financial support from the Department of Fisheries, Government of Karnataka, Bengaluru and National Fisheries Development Board, Hyderabad during 4-6th March, 2016. The mela attracted thousands of people including farmers, public and school children. It was described as one of the biggest mela held in Dakshina Kannada district as mentioned in media.

The highlight of the mela was display of colorful very rare ornamental fishes obtained from Shivamogga, Bengaluru and Kolkatta. It was an opportunity for school children to observe the beauty and diversity of aquatic life of which they only had text book knowledge. More than 60 molded aquariums of different sizes were on display. The alligator gar was the center of attraction as it was very rare species.



**LIST OF SMALL BOOKLETS OF KVAFSU, BIDAR PUBLISHED FOR THE
BENEFIT OF FARMING COMMUNITY DURING 2015-16**

#	Name of the Publication
DIVISION OF FISHERIES	
1	Problemative saline and alkaline soils for profitable fish culture
2	Brood stock management and induced breeding of cultivable variety of fishes
3	AMUR – The pride fish breed of KVAFSU, Bidar
4	Fresh water prawn culture
5	Cage culture of fishes
6	Site selection, designing and construction of fish ponds
7	Scientific fresh water fish culture
8	Value added fish products, by-products and entrepreneurship opportunities in fisheries
9	Fisheries poems (to create awareness among fisher folk)
DIVISION OF CLINICAL SCIENCE	
10	Sheep and goat diseases
11	Simple surgeries in animal husbandry
12	First aid and emergency in animals
13	Unscientific treatments given to animals by farmers and their remedy
14	Animal diseases and their control
15	Common surgeries in sheep and goats
16	Treatment of surgical conditions in animals
17	Restraint in animals and common surgeries in pigs
18	Recent diagnostic techniques in animals – A handbook to farmers
DIVISION OF ANIMAL & POULTRY SCIENCES	
19	Scientific sheep & goat rearing
20	Economic, tasty and nutritive silage for all seasons
21	Diseases of native bird and their control
22	Native bird rearing
23	Improvise pig rearing
24	Fodder development in Karnataka – Agriculture forest model
25	Animal husbandry practices for quality milk production in cows
26	Fodder movement through farmers participation
DIVISION OF PRE & PARA CLINICAL SCIENCES	
27	Haemoprotozoan diseases of animals and their management
28	Parasitic worm problems in animals and their management
29	External parasites of animals and their management
DIVISION OF DAIRY SCIENCE	
30	Scientific dairying
31	Points to be followed for clean milk production

Publications brought out by the Directorate during 2015-16

Annual Report-2014-15, both English and Kannada

News Letters Vol-XI, Issue-I and Issue-II

University Calendar-2016

Monthly Planner-2016



Important decisions taken during 11th Extension Education Council Meeting held on 28-06-2016 at Board Room, KVAFSU, Bidar

Sri. C.V. Lokeshgowda, Progressive Farmer, Bengaluru expressed that Blue Tongue Vaccine should be made available to farmers whenever and the disease outbreak is observed. The Chairman of the Council informed the Director, IAH&VB, Hebbal to take up the Blue Tongue Disease Vaccination Production on top priority (**Action:** Director, IAH&VB, Bengaluru).

Sri. Lokeshgowda opined that UG students (undergoing internship & PG) to be used for giving the information to the farmers on Blue Tongue disease in collaboration with the DAH&VS, GoK (**Action:** Deans of all the Veterinary Colleges of KVAFSU).

Sri. Lokeshgowda expressed that emphasis should be given for dissemination of information to the farmers through brochure / pamphlets (**Action:** DE, KVAFSU, Bidar).

Sri. Lokeshgowda opined that the farmers for the trainings related to sheep & goat rearing should be selected through the Sheep & Goat Societies of the village, so that the needy farmer can be benefited (**Action:** DR, KVAFSU, Bidar / Deans of all the Veterinary Colleges / Directors / OSDs / PC-KVK-DK / Principal-AHP, Shiggaon & Konehally / All the Heads of EECs).

Sri. Lokeshgowda opined that if university is distributing small ruminants to the farmers, a minimum of 4 females and 1 male should be distributed for better productivity (**Action:** DR, KVAFSU, Bidar).

Sri. Lokeshgowda expressed that the success stories of sheep & goat rearing should be published (**Action:** DE, KVAFSU, Bidar).

Dr. S.K. Meti, Director of Extension, UAS, Raichur complimented the Directorate of Extension, KVAFSU for the meaningful programmes and opined that a field demonstration on integrated farming system be taken up at the progressive farmers' field in collaboration with UAS-Raichur/Dharwad/Bengaluru, UHS-Bagalkot, UAHS-Shivamogga, DAH&VS, Dept. of Horticulture, Dept. of Agriculture, Dept. of Sericulture etc. (**Action:** Heads of EECs / PC-KVK-DK).

Dr. Meti, DE, UAS, Raichur expressed that extension activities of the university should be increased for the economic improvement of farming community (**Action:** DE, KVAFSU, Bidar).

Sri. Mahadev Nagure, Progressive Farmer, Bidar opined that the integrated farming demonstration will help in bringing the youth from cities to villages to carry out animal husbandry/agri activities and suggested that Directorate should motivate rural unemployed youth to take up animal husbandry practices for livelihood (**Action:** DE, KVAFSU, Bidar).

The Director of Extension, KVAFSU stressed that KVK-DK should strive hard to make it a vibrant KVK in helping farmers of the district to adapt animal husbandry practices along with agriculture. (**Action:** Head, KVK-DK).



IV. PUBLICATIONS

1. Research Papers

i) International Publications

a) In Journals

#	<i>Authors, Year of publication, Title of the paper and Journal</i>
VETERINARY COLLEGE, HEBBAL, BENGALURU	
1	Basavanta Kumar, C., Venkatarami Reddy, B.S., Gideon Gloridoss, R., Prabhu, T.M., Suresh, B.N. and Naveen Kumar, S., 2015. Amelioration of Aflatoxicosis through a Bio-Technologically Derived Aflatoxin Degrading Commercial Product in Broilers. <i>Pakistan Veterinary Journal</i> , 35(2): 217-221.
2	Basavarajaiah, D.M., Nagraja, Y., Bharathi, M. and Raghupathi, M., 2014. Socioeconomic condition and livestock rearing activities of tribal's for maintaining their livelihood in westernghat region of Karnataka State. <i>Int.J.of Usufmngt.</i> , 15(2): 111-125.
3	Basavarajaiah, D.M., Narasimhamurthy, B. and Maheshappa, K., 2015. Variation of Continuous probability distribution parameters. <i>International Journal of Mathematical Sciences and Applications</i> . 5(1): 55-58.
4	Basavarajaiah, D.M., Yathiraj, S. and Suranagi, M.D., 2014. Time to failure probability distribution models approach to biological data of animal Sciences. <i>International Journal of Mathematics</i> . 34(2):1557-1563.
5	Chandranaik, B.M., Giridhar, P., Muniyellappa, H.K., Hegde, R., Earanna, N., Rathamma, D., Rajeshwar, S.K., Kanaka, S., Chandrakala, G.K., Ashamayanna and Venkatesha, M.D., 2015. <i>Bacillus cereus</i> harboring the pXO1 plasmid with <i>pag</i> gene causes anthrax-like fatal septicemia in immunosuppressed cattle. <i>Veterinarski Arhiv.</i> , 85(3):347-357.
6	Chandrashekar, K.M., Shrikrishna Isloor, Veeresh, B.H., Raveendra Hegade, Rathamma, D., Shivaraj Murug, Veeregowda, B.M., Upendra, H.A., Nagendra and Hegade, R., 2015. Limit of detection of genomic DNA by conventional PCR for estimating the load of <i>Staphyococcus aureus</i> and <i>Escherchia coli</i> associated with bovine mastitis. <i>Folia Microbiologica</i> , 60(6):465-472.
7	Farman, M., Tripathi, S.K., Deepti, K. Babu., Nandi, S. and Girish Kumar, V., 2015. Influence of estrogen, progesterone and their synthetic derivatives on ovarian functions. <i>Journal of Infertility and Reproductive Biology</i> , 3(4):250-254.
8	Farman, M., Tripathi, S.K., Nandi, S. and Girish Kumar, V., 2015. Follicular fluid concentrations of metabolic stressors in normal, obese, metabolic stressed and emaciated ewes. <i>Asian Journal of Animal Sciences</i> , 9(6):466-470.
9	Girish Kumar, V., Tripathi, S.K., Farman, M. and Nandi, S., 2014. Ovarian intrafollicular fluid factors and their roles in follicle and ovum development in ruminants. <i>Journal of Infertility and Reproductive Biology</i> . 2(4):124-135.
10	Kalmath, G.P., Narayana Swamy, M. and Yathiraj, S., 2015. Effect of Summer Stress and Supplementation of Vitamin E and Selenium on Serum Lipid Profile in Hallikar Cattle. <i>International Journal of Science and Research</i> . 4(9):95-97.
11	Kruthika, P.R., Veena, T., Nararana Swamy, M., Honnappa, T.G., Naranana Swamy, H.D. and Shridhar, N.B., 2015. Effect of Pregnant Cows Urine on Follicular Dynamics in Female Wistar Albino Rats. <i>International Journal of Livestock Research</i> , 5(8):18-26.



12	Lankesh, P., Narayana Swamy, M., Shrikrishna Isloor, Sudhakar, M.L. and Pradeep, N., 2015. Haematological profile in Hallikar cattle at the native tract. <i>International Journal of Science, Environment and Technology</i> , 4(5):1316-1321.
13	Mohamed Nadcem Fairoze, Divya, M. and Basavarajaiah, D.M., 2014. Predictive Mathematical Model approach to development of zinc enriched table eggs as functional food. <i>International Journal of Applied Mathematics and Statistics</i> , 6(4): 88-92.
14	Naveen Kumar, S., Jayashankar, M.R., Nagaraja Ramakrishnappa, Nagaraja, C.S., Nadeem Fairoze and Satyanarayana, K., 2015. Genetic polymorphism of ovine calpain gene in Bandur sheep. <i>International Journal of Science, Environment and Technology</i> , 4(3): 804-812.
15	Pothuraju, M., Mishra, S.K., Kumar, S.N., Mohamed, N.F., Kataria, R.S., Yadav, D.K. and Arora, R., 2015. Polymorphism in the coding region sequence of GDF8 Gene in Indian Sheep. <i>Russian Journal of Genetics (Genetika)</i> , 51(11): 1297-1300.
16	Preetirani, P.L., Shrikrishna Isloor, Sundareshan, S., Nuthanalakshmi, V., Deepthikiran, K., Akhauri, Sinha, Y., Rathnamma, D., Nithin Prabhu, K., Sharada, R., Trilochan Mukkur, K., Nagendra and Hegade, R., 2015. Isolation, Biochemical and Molecular identification and <i>In-vitro antimicrobial</i> resistance patterns of bacterial isolated from bubaline subclinical Mastitis in south India. <i>PLOS ONE</i> , 10(11):1-15.
17	Premvalli, K., Ramamurthy, N., Omprakash, A.V., Balakrishnan, V., Appa rao, V. and Veeregowda, B.M., 2015. Comparative external, internal Egg Quality characteristics and egg component yield of Pearl and White Guinea Fowl Strains at different ages. <i>Worlds Poultry Science Journal</i> , 71(1):101.
18	Premvalli, K., Veeregowda, B.M., Ramamurthy, N., Omprakash, A.V., Balakrishnan, V., Appa rao, V. and Babu, M., 2015. Evaluation of proximate composition of meat of Guinea Fowl, maintained under different rearing systems in India. <i>Worlds Poultry Science Journal</i> , 71(1):184.
19	Premvalli, K., Veeregowda, B.M., Ramamurthy, N., Omprakash, A.V., Balakrishnan, V. and Appa rao, V., 2015. Evaluation of nutritive value of eggs of pearl and white Guinea Fowls reared under intensive. <i>Worlds Poultry Science Journal</i> , 71(1):134.
20	Ravikumar, C., Jagadeesh S. Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Histopathological findings of lymphoid organs due to administration of long acting oxytetracycline formulation in rats. <i>International Journal of Science, Environment and Technology</i> , 5(2):737-743.
21	Ravikumar, C., Jagadeesh S. Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Effect of long acting oxytetracycline formulation on immunity based on total serum immunoglobulin concentration in rats. <i>International Journal of Science, Environment and Technology</i> , 5(2):424-430.
22	Ravikumar, C., Jagadeesh S. Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Effect of long acting oxytetracycline on immune response based on haemagglutination titre in rats. <i>World Journal of Pharmaceutical Research</i> , 5(4): 1340-1347.
23	Ravikumar, C., Jagadeesh S. Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Effect of long acting oxytetracycline on immune response based on phagocytic index in rats. <i>World Journal of Pharmaceutical Research</i> , 5(4):1348-1354.
24	Ravikumar, C., Jagadeesh S. Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Effect of long acting oxytetracycline on total leucocyte count hematological parameters in Wistar rats. <i>World Journal of Pharmaceutical Research</i> , 5(4):1628-1634.



25	Ravikumar, C., Jagadeesh, S.Sanganal, Shridhar, N.B., Narayanaswamy, H.D., Sunilchandra, U. and Shivashankar, B.P., 2016. Assessment of effect of long acting oxytetracycline formulation on immune status based on dinitrochlorobenzene skin sensitivity test in rats. <i>International Journal of Science, Environment and Technology.</i> , 5(2):672-677.
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INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

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LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED

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b) In Conferences / Seminars / Symposia / Workshops etc.,

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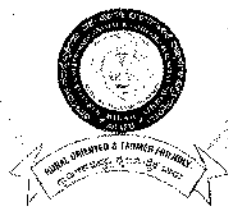
ii) National Publications

a) Publications in Journals

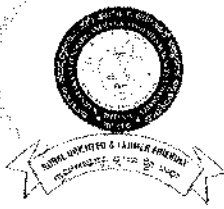
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2	Arun, C.S., Shirdhar, N.B. and Santhosh Kumar, C.N., 2015. Surgical Management of Pyometra and Urocystoliths in a Bitch. <i>Intas Polyvet</i> , 16(1):161-162.
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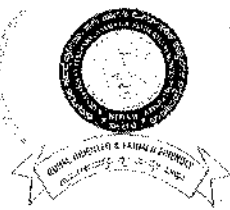
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6	Temjennungsang, Sonal Thakur, Prabhu, T. M., B. S. V. Reddy, Gloridoss, R. G. and Suresh, B. N. Performance of goat kids fed detoxified honge (<i>Pongamia glabra vent</i>) seed meal based concentrate mixtures. 2016. <i>Animal nutrition and feed technology.</i> Accepted for publication.
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1	Manjappa, N., Basavaraja, N. & Anjaneyappa, H. N., 2015. Reproductive Biology of Estuarine Whiting, <i>Sillago Vincenti</i> (Mckay,1980). <i>Journal of Aquaculture in the Tropics</i> (30):95-110.
2	Rajanna, K.B., Anjaneyappa, H.N., Benakappa, S., Chethan, N. Reddy, Somashekar, H.R.V., Prabhudeva, K.N, Basavaraju, Y. and Muthappa, K., 2015. Food and feeding habit of fringed lipped carp, <i>Labeo fimbriatus</i> (Bloch) of the Vanivilasasagara Reservoir of Karnataka. 6(4)3431-3434 <i>International Journal of recent Scientific Research.</i>



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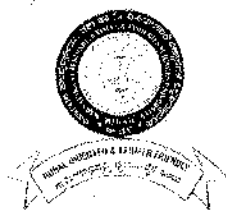
#	Year / Authors / Title of Paper / Conference
VETERINARY COLLEGE, BENGALURU	
1	Anil, S. Patil, Ramesh Rathod, Nagaraja, B.N., Ranganath L. and Vasanth, M.S., 2015. Successful Management of Hoof Avulsion in a bullock with wooden Hoof block. XXXIX Annual Congress of ISVS & National Symposium on Recent Innovations in Diagnosis & Treatment of Surgical Disorders in Ruminants and Equine with Particular Applicability in Hilly Terrain, Srinagar (Jammu & Kashmir), during 1-3 rd September 2015.
2	Anil, S. Patil, Ramesh Rathod, Nagaraja, B.N., Ranganath, L. and Vasanth, M.S., 2015. Successful Surgical Management of Umbilical Hernia complicated with Ruminant Fistula in a Holstein Friesian calf. XXXIX Annual Congress of ISVS & National Symposium on Recent Innovations in Diagnosis & Treatment of Surgical Disorders in Ruminants and Equine with Particular Applicability in Hilly Terrain, Srinagar (Jammu & Kashmir), during 1-3 rd September 2015.
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4	Archana, M., Placid E.D'Souza and Jagadeesh Patil, 2016. Exposition of entomopathogenic nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) to poultry manure: a cause for survival and reproduction. 25 th National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control' held from 17 th to 19 th February, 2016 at Chennai.
5	Arun, P., Satyanarayana, M.L., Narayanaswamy H.D. and Suguna Rao, 2015. Clinico-Pathological Studies and Diagnosis of Ehrlichiosis in Dogs. Research paper presented at XXXII Annual Conference of Indian Association of Veterinary Pathologists. VI Annual Meeting of Indian College of Veterinary Pathologists and National Symposium on "Challenges and Advances in Disease Diagnosis of Livestock. Poultry and Fish: Redefining the Role of Veterinary Pathologists", December 3-5, 2015 organized by Indian Association of Veterinary Pathologists (IAPV) and Department of Veterinary Pathology, NTR College of Veterinary Sciences, Sri Venkateswara Veterinary University, Gannavaram -521 102, Krishna (Dist), Andhra Pradesh.
6	Ashwini, M.S., Santhosh Kumar, C.N., Puttalakshamma, G.C. and Mamatha, G.S., 2015. Tick Control in Cattle. 11 th Kannada Vignana Samelana held from 13 th to 15 th September, 2015 at Raichur.
7	Byregowda, T.R., Suguna Rao, Sathyanarayan, M.L., Narayanaswamy, H.D., Puttalakshamma, G.C. and Basavaraj, Y., 2015. Study on Occurrence of Parasitic Infections in Freshwater Fish in and Around Bengaluru, Research paper presented at XXXII Annual Conference of Indian Association of Veterinary Pathologists. VI Annual Meeting of Indian College of Veterinary Pathologists and National Symposium on "Challenges and Advances in Disease Diagnosis of Livestock. Poultry and Fish: Redefining the Role of Veterinary Pathologists", December 3-5, 2015 organized by Indian Association of Veterinary Pathologists (IAPV) and Department of Veterinary Pathology, NTR College of Veterinary Sciences, Sri Venkateswara Veterinary University, Gannavaram -521 102, Krishna (Dist), Andhra Pradesh.



8	Chaitra, K. Gowda, Puttalakshamma, G.C., Placid E.D'Souza, Mamatha, G.S., Chandranaik, B.M. and Thimmareddy, P.M., 2016. Gastrointestinal parasitism in pigs from different managemental systems from Bengaluru and surrounding districts. 25 th National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control' held from 17 th to 19 th February, 2016 at Chennai.
9	Chaitra, K. Gowda, Puttalakshamma, G.C., Placid E.D'Souza, Suguna Rao, Mamatha G.S. and Thimmareddy, P.M., 2016. Prevalence of gastrointestinal parasites in slaughtered pigs. 25 th National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control' held from 17 th to 19 th February, 2016 at Chennai.
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16	Gopinath, C.R., Mahadevappa, D. Gouri, Narashimhamurthy, H.N. and Rajakumar, Nagarahalli., 2015. Andina baratada nati kolige indina vishwada bahuroopi kolitaligalu.11 th Kannada Vijnana Sammelana – Karnataka Science Congress, 13.
17	Gopinath, C.R., Mahadevappa, D. Gouri, Narashimhamurthy, H. N. and Rajakumar, Nagarahalli. Natikolimotte; swabavika, utkrushta haagu rakshnatmaka ahara. 11 th Kannada Vijnana Sammelana – Karnataka Science Congress, 13.
18	Hemashree, P., Girish kumar, V., Sridhar, R.N., Rudrappa, S.M., Sagangouda, K., Chnadrashekar Murthy, V. and Nandi, S., 2015. Lactate dehydrogenase isozyme profile in elephants (<i>Elephas maximus</i>). International symposium on "Ecology and health management of haract elephants (<i>Elephas maximus</i>) from 19-20 th Nov., 2015 at NAASC Complex, ICAR, New Delhi
19	Hemashree, P., Mondal, S., Arangasamy, A., Selvaraj, S., Girish Kumar, V., Sridhar, R. N., Ramachandra, S.G., 2016. A Comparative study of Biochemical constituents haracteri with meat quality in different breeds of Chicken. Annual Convention & National Symposium Society of Veterinary Biochemists & Biotechnologists of India (SVBBI) on "Use of Advanced Technologies of Biochemistry and Biotechnology in Livestock Health, Production and Reproduction" from 11 th and 12 th March, 2016 at College of Veterinary Science and A.H., OUAT., Bhubaneswar, Odisha.
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23	Lathamani, V.S., Ramesh, P.T. and Siddalingamurthy, H.K., 2016. Rectal prolapse as consequence of strongylosis in a donkey. 34 th Annual Convention of ISVM & National Symposium. 17-19 th Feb., 2016, Ludhiana, pp. 241.
24	Lathamani, V.S., Ramesh, P.T. and Siddalingamurthy, H.K., 2016. Pityriasis rosea in a piglet. 34 th Annual Convention of ISVM & National Symposium. 17-19 Feb., 2016, Ludhiana, pp. 117.
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26	Mahadevappa, D. Gouri., Gopinath, C. R., Narashimhamurthy, H.N. and Prasanna, S. B., 2015. Production and importance of hydroponics fodder in livestock – a review. 11 th Kannada Vijnana Sammelana – Karnataka Science Congress, 13.
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29	Mahesh, V., Ravi Kumar S. and Ranganath, L., 2015. Prostatic Omentalization for the treatment of chronic Prostatic Abscess in a Great Dane dog. XXXIX Annual Congress of ISVS & National Symposium on Recent Innovations in Diagnosis & Treatment of Surgical Disorders in Ruminants and Equine with Particular Applicability in Hilly Terrain, Srinagar (Jammu & Kashmir), during 1-3 rd September 2015.
30	Mamatha, G.S., Chandranaik, B.M., Shivashankar, B.P., Shruthi, R., Ashwini, M.S., Rajanna, R., Puttalakshamma, G.C. and Thimmareddy, P.M., 2016. Assessment of gastrointestinal parasitic infection in captive elephants (<i>Elephas maximus</i>) at Bandipure tiger reserve and Nagarahole forest areas in Karnataka. 25 th National Congress of Veterinary Parasitology and National Symposium on “One health approach-Plausible solution for sustainable parasite control” held from 17 th to 19 th February, 2016 at Chennai.
31	Mamatha, G.S., Chandranaik, B.M., Srivasthava, V., Placid E.D’Souza, Rohit, K.J. Puttalakshamma, G.C., Giridhar, P., Thimmareddy, P.M. and Byregowda, S.M., 2016. Incidence and successful treatment of scabies in sheep. 25 th National Congress of Veterinary Parasitology and National Symposium on “One health approach-Plausible solution for sustainable parasite control” held from 17 th to 19 th February, 2016 at Chennai.
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34	Manjunatha, S.S., Kavitha Rani, B., Vinay, T.S., Suresh Patel and Satyanarayana, M.L., 2015. Drug induced hypersensitivity reaction leading to hypovolumic shock in HF Cross Cow. Research paper presented at XXXII Annual Conference of Indian Association of Veterinary Pathologists. VI Annual Meeting of Indian College of Veterinary Pathologists and National Symposium on "Challenges and Advances in Disease Diagnosis of Livestock. Poultry and Fish: Redefining the Role of Veterinary Pathologists", December 3-5, 2015. organized by Indian Association of Veterinary Pathologists (IAVP) and Department of Veterinary Pathology, NTR College of Veterinary Sciences, Sri Venkateswara Veterinary University, Gannavaram-521 102, Krishna (Dist), Andhra Pradesh.
35	Murthy, V.C., 2015. A New progesterone based ovsynch protocol for improving conception rate in repeat breeder cows. ISSAR-2015, Nataional Symposium on current challenges & opportunities in animal reproduction 3-5 th Dec., 2015 at Veterinary College, Bengaluru.
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38	Murthy, V.C., 2015. C-reactive protein as a prognostic indicator to monitor post operative period in pyometra affected dogs. ISSAR 2015, Nataional Symposium on current challenges & opportunities in animal reproduction 3-5 th Dec., 2015 at Veterinary College, Bengaluru.
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50	Narayana Bhat, M., Sumanthkumar, B.K. and P.T. Ramesh, 2016. Clinical signs and prevalence of mycoplasmosis in sheep in different parts of Haveri district. Proceedings of 34 th Annual Convention of ISVM and National Symposium held at College of Veterinary Sciences, Ludhiana from 17 th -19 th 2016, pp.47.
51	Naveen Kumar, S., Jayashankar, M.R., Wilfred Ruban and Nagaraja, R., 2016. Carcass and meat quality characteristics of Bandur sheep. National Seminar on Food: Safety and Health Environment, 25-26, February 2016, Dept. of LPT, MVC, Chennai, pp. 146-147.
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53	Neelufer, M.S., Isloor, S., Veeresh, B.H., Palaniappan, C., Sekhar, B., Rathamma, D., Yathiraj, S., Chandranaik, B.M., Deepti, B.R., Vishal, B.N., Manjunath Reddy and Abdul Rahman, S., 2015. Standardization And Application Of Rabies Virus Neutralizing Antibody Assay For Assessment Of Vaccinal Efficacy in Dogs. 17 th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Hyderabad from 4 th to 5 th July, 2015.
54	Nithinprabhu., K., Isloor, S., Veeresh, B.H., Rathamma., D., Yathiraj, S., Satyanarayana, M.L., Placid D. Souza, Neelufer, M.S., Sharada, R. and Abdul Rahaman, S., 2015. Nucleoprotein Gene - based molecular epidemiology of Rabies virus and Development of Isothermal Nucleic Acid Amplification Assay for it's detection. 17 th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Hyderabad from 4 th to 5 th July, 2015.



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57	Rajani, C.V., Prasad, R.V. and Jamuna, K.V., 2015. Existence of immune-modulation in porcine placenta. XXX Annual Convention of Indian Association of Veterinary Anatomists & National Symposium, 16 th -18 th December 2015, Kolkata.
58	Rajshailsha, N.M., Prasad, R.V., Jamuna, K.V., Krishna Kakade, Girish, M.H. and Sunilkumar, N.S., 2015. Studies on morphology and cytoarchitecture of gracilis, medial and lateral cuneate nuclei in the buffalo (<i>Bubalus bubalis</i>). XXX Annual Convention of Indian Association of Veterinary Anatomists & National Symposium, 16 th -18 th December 2015. Kolkata.
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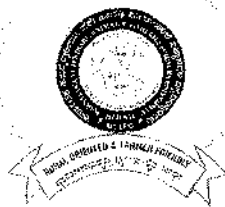
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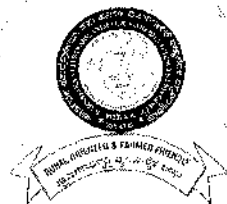
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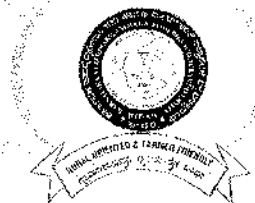


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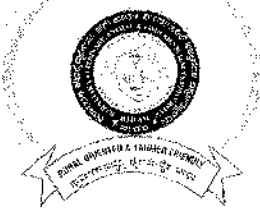
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12	Chandre Gowda, C.T., Indresh, H.C., Sunil Kumar, M.A., Girish, B.C., Shivakumar, M.C. and Suresh, B.N., 2015. Effect of Feeding Yeast Cell extracted Nucleotides and Mananoligosaccharides at graded level on gut microflora and intestinal villi growth in commercial broilers. Proceedings of Kerala Veterinary Science Congress. ISSN -2394-225X. Page no:-121-125
13	Chandrashekar, G.K., Girish, B.C., Manjunatha, K. and Narayanaswamy, H.D., 2015. Malignant Mixed Tumour in a Pomeranian Dog: A Clinical Report. 11 th Kannada Vijnana Sammelana, 13-09-2015 to 15-09-2015, Raichur. Pg.143.
14	Chandrashekar, G.K., Girish, B.C., Jayaramu, G.M. and Manjunatha, K.P., Mycotoxicosis in poultry industry. 11 th Kannada Vijnana Sammelana, 13-09-2015 to 15-09-2015, Raichur: pg.143
15	Kalleshwarappa, G.M. and Vinuthan, M.K., 2016. Characterization of Pregnancy Specific Immunogenic Marker Proteins in Buffaloes. Annual convention of society of veterinary Biochemists and Biotechnologists of India compendium RB.-02: p.57



16	Kalleshwarappa, G.M. and Vimuthan, M.K. 2016. Characterization of Pregnancy Specific Immunogenic Marker Proteins in Buffaloes. <i>Annual convention of society of veterinary Biochemists and Biotechnologists of India compendium RB.-02</i> : pg-57
17	Renukaradhya, G.J., Sahadev, A. and Suchitra, B.R., 2015. Studies on efficacy of antibiotic and prostaglandin treatment of High Risk Uterine Disease (HRUD) in dairy cows. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. PPPC-P12 p98
18	Mamatha, G.S., Chandranaik, B.M., Srivasthava, V., Placid, E.D'Souza, Rohit, K.J., Puttalakshamma, G.C., Giridhar, P., Thimma Reddy, P.M. and Byregowda, S.M., 2016. Incidence and Successful Treatment of Scabies in Sheep. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 215
19	Girish, B.C., Shilpa, V.T., Manjuanth, D.R., Roopa Devi, Y.S. and Manjunatha, K.P., 2015. Pathology of ganglion cysts in a ND cow. <i>XXXII Annual conference of Indian association of Veterinary Pathologists and National symposium on "Challenges and advances in disease diagnosis of livestock, poultry and fish: redefining the role of Veterinary Pathologists". From Dec 3rd to 5th, in Department of Veterinary Pathology, NTR college of Veterinary Science, Sri Venkateshwara Veterinary University, Gannavaram, AP. Pp 335.</i>
20	Girish, B.C., Shilpa, V.T., Manjunatha, K.P. and Roopa Devi, Y.S., 2015. Renal failure and haemorrhagic gastroenteritis in a leopard. <i>XXXII Annual conference of Indian association of Veterinary Pathologists and National symposium on "Challenges and advances in disease diagnosis of livestock, poultry and fish: redefining the role of Veterinary Pathologists". From Dec 3rd to 5th, in Department of Veterinary Pathology, NTR college of Veterinary Science, Sri Venkateshwara Veterinary University, Gannavaram, AP. Pp 334-335.</i>
21	Valibasha, H., Placid E.D'Souza, Nagaraj, B.N., Sathyanarayana, M.L. and Puttalakshamma, G.C., 2016. Coproculture study and Identification of Strongyles in Horses. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 251
22	Indresh, H.C., Chandre Gowda, C.T., Girish, B.C., Shivakumar, M.C., Sunil Kumar, M.A. and Suresh, B.N.(2015). Effect of feeding yeast cell extracted nucleotides and mananoligosaccharides at graded level on immunity and serum biochemistry in commercial broilers. <i>Proceedings of Kerala Veterinary Science Congress. ISSN -2394-225X. Page no:- 482-486</i>
23	Indresh, H.C., Shivakumar, M.C., Suresh, B.N. Chandre Gowda, C.T., Girish, B.C. and Sunil Kumar, M.A.,(2015). Effect of feeding yeast cell extracted nucleotides and mananoligosaccharides at graded level on growth performance and carcass characteristics in commercial broilers. <i>Proceedings of Kerala Veterinary Science Congress. ISSN -2394-225X. Page no:-115-120</i>
	Narasimha Murthy, Sudha, G., Chandrashekara Murthy, V., Sahadev, A., Chethana, D.H., Viswanath, S. and Debajyoti Sarkar, 2015. Unilateral cystic degeneration of a large ovarian cyst in a HF crossbred cow-A case report. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. CCP-130 p213



25	Shwetha, K.S., Sunita Behera, Narasimhamurthy, Sahadev, A., Bibin Becha, Sandeepa, K.H., Rudresh, G.N. and Deepti, R., 2015. Hydroallantois in a Beagle bitch- a rare report. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. CCP-67 p190
26	Vijayakumar, K.U., Puttalakshamma, G.C., Placid, E.D'Souza, Sengupta, P.P., Chandranaik, B.M. and Renukaprasad, C., 2016. Comparison of parasitological and molecular methods for diagnosis of bovine babesiosis. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 151
27	Vasanth, M.S., 2015. Lead paper on "Prosthetics in Veterinary Surgery" at Canine Surgery Session. <i>National Symposium organized by ISACP during June 17-19th, 2015 at Allahabad, Uttar Pradesh.</i>
28	Archana, M., Placid, E. D'Souza and Jagadeesh Patil, 2015. Efficacy of Entomopathogenic Nematodes (Rhabditida:Steinernematidae and Heterorhabditidae) on Developmental Stages of House Fly, <i>Muscadomestica</i> . <i>International Symposium on Biodiversity, Agriculture, Environment and Forestry, Ooty</i> ,10-11 December,2015: pg.73
29	Archana, M., Placid, E. D'Souza and Jagadeesh Patil, 2016. Exposition of Entomopathogenic Nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) to Poultry Manure: A cause for Survival and Reproduction. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 125
30	Veena, M., Ponnudurai, G., Rani, N., Anbarasi, P., Dhanalakshmi, H. and Jaya Nagappa Lakkundi, 2016. Prevalence of Ectoparasites in Poultry. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 75
31	Manjunath, S.P., Chandre Gowda, C.T., Manjunatha, D.R. and Sunil Kumar, M.A., 2015. Scrotal ablation technique for treatment of scirrhus cord in sheep. <i>XXXIX Annual Congress of ISVS and National Symposium "Recent innovations in diagnosis and treatment of surgical disorders in ruminants and equines with particular applicability in hilly terrain"</i>
32	Manjunatha, D.R., Nagaraju, N., Basavaraj Balappanavar, Srinivasmurthy, K.M. and Vasanth, M. S., 2015. Reliving of esophageal obstruction without surgical intervention in three cases. <i>XXXIX Annual Congress of ISVS and National Symposium "Recent innovations in diagnosis and treatment of surgical disorders in ruminants and equines with particular applicability in hilly terrain"</i>
33	Manjunatha, D. R., Nagaraju, N., Basavaraj Balappanavar, Srinivasmurthy, K.M. and Vasanth, M. S., 2015. Thyroid cartilage injury and its surgical treatment in a pomeranian dog. <i>XXXIX Annual Congress of ISVS and National Symposium "Recent innovations in diagnosis and treatment of surgical disorders in ruminants and equines with particular applicability in hilly terrain"</i>



34	Manjunatha, D.R., Nagaraju, N., Basavaraj Balappanavar, Srinivasmurthy, K.M. and Vasanth, M.S., 2015. Caesarian section in bovines under epidural analgesia using different combination of drugs. <i>XXXIX Annual Congress of ISVS and National Symposium on "Recent innovations in diagnosis and treatment of surgical disorders in ruminants and equines with particular applicability in hilly terrain"</i>
35	Sivaraju, M.V., Suchitra, B.R. and Renukaradhya, G.J., 2015. Dystocia due to oversized fetus in a crossbred cows. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. CCP-96 p201
36	Naveenkumar, G.S., 2016. Farm Household Status and Animal Demography in Amruthmahal Breeding tract. <i>XIII Annual Convention of Society for Conservation of Domestic Animal Biodiversity.</i> , 11-12 Feb., 2016, Jammu, pp.185.
37	Naveenkumar, G.S., 2016. Status of Amruthmahal Breed Performance. <i>XIII Annual Convention of Society for Conservation of Domestic Animal Biodiversity.</i> , 11-12 Feb., 2016, Jammu, pp.185.
38	Narasimha Murthy, Shwetha, K.S., Sudha, G., Sahadev, A., Sunita Behera, Chethana, D.H., Sandeepa, K.H., Mahendra, S. and Viswanath, S., 2015. A case report of uterine unicornis in a HF heifer successfully treated by transvaginal artificial insemination. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. CCP-66 p190
39	Nithin Kumar and Dhanalakshmi, H., 2016. Effective treatment of Sarcoptic Mange in Pigs with Neem leaves- A case study. <i>7th International clinical case conference on Farm and companion animal practice for veterinary students, 13th -14th august 2015 at Veterinary College & Research Institute, Namakkal.</i> P. 97
40	Mahendra, S., Shwetha, K.S., Bibin Becha, Suchitra, B.R., Narasimhamurthy, Sudha, G., Sahadev, A., Rudresh, G.N., Chethana, D.H. and Debajyoti Sarkar, 2015. Perosomus horridus monster in a jersey cow. XXXI Annual convention of ISSAR & National symposium held from 3-5 th Dec. 2015 at Veterinary College, Bengaluru. CCP-95 p201
41	Manjunath, S.P., Prasanna Kumar, V., Chandre Gowda, C.T. and Manjunatha, D.R., 2015. Surgical management of unusual obstruction of teat in a crossbred cow. <i>XXXIX Annual Congress of ISVS and National Symposium "Recent innovations in diagnosis and treatment of surgical disorders in ruminants and equines with particular applicability in hilly terrain"</i>
42	Zakir Hussain, Placid, E.D'Souza and Puttalakshamma, G.C., 2016. Effect of Entomopathogenic Nematodes against Cattle Tick Rhipicephalus Haemaphysaloides : an in vitro study. <i>XXV National Congress of Veterinary Parasitology and National Symposium on "One health approach-Plausible solution for sustainable parasite control" at Madras Veterinary College, Chennai</i> from 17.2.2016 to 19.2.2016: p 106-107.

DAIRY SCIENCE COLLEGE, BENGALURU

1	Dhavalagi Pallavi, Vijay jadhav and Jayashri P. Hiremath, 2015- Application of oats as a functional food. Vijnana Nele 8 th National Women Science Congress, Nov,
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COLLEGE OF FISHERIES, MANGALURU

1	Jitendra Kumar, Shobha Rawat and Benakappa, S., (2016) Satellite based fishery forecast in India. <i>In:3rd National Conference on "Strategy for Human Welfare on Nature conservation and Resource management"</i> (31 January & 01 February, 2016) organized by Environment & Social Welfare Society, Khajuraho-India. p. 36.
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2	Shobha Rawat, Jitendra Kumar and Benakappa, S., (2016) Identification of fish stocks based on Truss Morphometric: An overview. In. National Symposium on "Marine Bio-resources and Coastal Livelihoods" organized by Gujarat Institute of Desert Ecology, Bhuj, Gujarat during 4-5th March, 2016.
3	Basavraja, N., 2016. Status, techniques and challenges in the seed production of native large barbs of Peninsular India. National workshop on Captive breeding and seed production of native freshwater fishes of India, Kerala University for Fisheries and Ocean Studies, Panangad, Kochi, Kerala. 1-4.
4	Turner, L.M., Turner, A.D., Girisha, S.K., Rai, A., Venugopal, M.N., Karunasagar, I. & Godhe, A., 2015. Interactive effects of climate change, toxic phytoplankton and pathogenic bacteria on the metabolic status of the green mussel <i>Perna viridis</i> . Annual Meeting of the Society for Experimental Biology 2015, Prague, Czech Republic, Abstract A10.27, p77.
5	Devivaraprasad Reddy, A., Santhosh, K.S., Subrahmanyam, G., Girisha, S. K. and Karunasagar, I., 2015. Ammonia oxidation kinetics and efficacy of ammonia bacterial isolates on their nitrification potential. 4 th Annual Symposium of Coastal Karnataka chapter, Society of Biological Chemists (India), 14 th Nov., 2015, NITTE University Centre for Science Education and Research, Deralakatte, Mangaluru
6	Banerjee, D., Venugopal, M. N., Girisha, S. K. and Karunasagar, I., 2015. DAP- a novel defense protein isolated from black tiger shrimp, <i>Penaeus monodon</i> in response to challenge with bacterial pathogen <i>Vibrio harveyi</i> with potential anti tumour effect. 56 th AMI Conference. 7-10 Dec., 2015, JNU New Delhi
7	Manjanaik, B. <i>et al.</i> 2015. Combined Effect of Gamma Irradiation and Freezing on the Microbial, Bio-chemical Quality and Shelf life of Cat Fish (<i>Pangasius hypophthalmus</i>). International Conference on Advances in Food Science and Technology (ICAFST 2015), Nov, 2015

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

1	Chandrashekar. G., Malathesh D.S., Nagaraj. L., Dhanalakshmi. S., Patel R.S. and Udupa, K.G. , Therapeutic management of snake bite in Hallikar bullock. 34 th Annual convention and convention f ISVM and National symposium, GADAVASU Ludhiyana, February, 2016 Compendium, page No.99
2	Nagaraj, L., Malathesh, D.S., Patel, R.S., Chandrashekar, G., Ananda, K.J., and Udupa, K.G. , Prevalence of contagious ecthyma in small ruminants. 34 th Annual convention and convention f ISVM and National symposium, GADAVASU Ludhiyana, February, 2016, Compendium, Page No.65
3	Nagaraj, L, Malathesh, D.S., Patel, R.S., Ananda, K.J., Chandrashekar, G. and Udupa, K.G. , Gastro intestinal parasitic infection in ruminants and its control 34 th Annual convention and convention f ISVM and National symposium, GADAVASU Ludhiyana, February, 2016, . Compendium, Page No.65
4	Malathesh, D.S., Nagaraj, L., Patel, R.S., Ananda, K.J., Chandrashekar, G. and Udupa, K.G. , Ectoparasitic infestation in Dogs and their control. . 34 th Annual convention and convention f ISVM and National symposium, GADAVASU Ludhiyana, February, 2016, Compendium, Page No.206



LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED

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| 1 | Channappagouda, B., Vivek M. Patil, Ananth Rao Desai, Prakashkumar Rathod and Basavaraju, Y., 2015. Dairy animal feeding in watershed areas of Bidar district of Karnataka State – Issues and approaches. 1 st National Conference of SVAHE, GADVASU Ludhiana, 18-20 Nov, 2015. |
| 2 | Anand S. Devarnavadagi, Rajeshwari, Y.B. and Vivek M. Patil, 2016. Effect of post milking teat dip on somatic cell count, milk quantity and quality in crossbred cows. National Seminar NDRI SRS Alumni Association, Bengaluru, 23-24 Jan, 2016. |

LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

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| 1 | Kavya, P.S., Prabhu, T.M., Pradeep, R., Gloridoss, R.G., Chandrapal Singh, K., Suresh, B. N. and Siddalingamurthy, H. K. Nutritional evaluation of spent Maize (<i>Zea mays</i>) cob as roughage source in sheep. XVI Biennial Animal Nutrition Conference on Innovative Approaches for Animal Feeding and Nutritional Research. ICAR-NDRI, Karnal. February 6-8, 2016. Pg. 262. |
| 2 | Suma, N., Reddy, B. S. V., Chandrapal Singh, K., Gloridoss, R.G., Prabhu, T.M., Suresh, B.N., Shilpa, V.T. and Anitha, K.C. Impact of swarnadhara dam nutrition in transferring immunity to its progeny. XVI Biennial Animal Nutrition Conference on Innovative Approaches for Animal Feeding and Nutritional Research. ICAR-NDRI, Karnal. February 6-8, 2016. Pg. 308. |
| 3 | Manjunatha, S.S., Kavitha Rani, B., Dhanalakshmi, V., Vinay, T.S. and Satyanarayana, M. L. Forensic investigation of bullet injury in Leopard. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 262. |
| 4 | Manjunatha, S.S., Kavitha Rani, B., Vinay, T.S. and Satyanarayana, M.L. Organophosphorous poisoning in Leopard – A post mortem investigation. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 262. |
| 5 | Kavitha Rani, B., Dhanalakshmi, S., Vinay, S., Manjunatha, S.S., Sheela, S., Jayaramma, G.M. A complex case of septicemia, embolism, suppurative cystitis and uremia in Bengal Tiger. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 330. |
| 6 | Manjunatha, S.S., Naik, D.T., Gopala Krishan Rao, D. Prevalence and pathobiological studies on fowl cholera inducing pneumonic lesions in poultry broiler birds. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 140. |
| 7 | Manjunatha, S.S., Kavitha Rani, B., Vinay, T.S., Suresh Patel and Satyanarayana, M. L. Drug induced hypersensitivity reaction leading to hypovolumic shock in HF cross cow. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 66. |



8	Manjunatha, S.S., Kavitha Rani, B., Dhanalakshmi, V., Vinay, T.S., Anand, K. J. and Satyanarayana, M. L. Verminous aspiratory pneumonia and parasitic enteritis in Indian Rock Python. 32 nd Annual Conference of IAVP and National Symposium on “Challenges and advances in disease diagnosis of livestock, poultry and fishes: redefining the role of veterinary pathologists”. CVS, Gannavaram, A. P. 3-5 December 2015. Pg. 347.
9	Ananda, K.J., Manjunatha, S.S., Dhanalakshmi, S. and Vinay, S. <i>Ophidascaris sp</i> infection in an Indian Rock Python (<i>Python Molurus Molurus</i>)- A Case Report. Compendium of 25 th National Congress of Veterinary Parasitology & National Symposium on “One Health Approach- Plausible solution for sustainable Parasite Control”. M.V.C. Chennai. 17 th to 19 th February 2016. Pg. 211-212.
10	Ananda, K.J., Manjunatha, S.S., Vinay, S. and Prasad, R.V. Concurrent infection of <i>Taenia taeniformis</i> & <i>Spirometra Mansonoides</i> infection in Free range Leopard (<i>Panthera pardus</i>). Compendium of 25 th National Congress of Veterinary Parasitology & National Symposium on “One Health Approach- Plausible solution for sustainable Parasite Control”. M.V.C. Chennai. 17 th to 19 th February 2016. Pg. 213.
11	Nagappa Karabasanavar, Adeppa, J., Ananda, K.J., Krishnamurthy, C.M., Manjunatha, S.S., Madhavaprasad, C.B. & Prasad, R.V. <i>Ralleitina</i> and <i>Menacanthus</i> infestation in a Common Indian Crow (<i>Corvus Splendens</i>). Compendium of 25 th National Congress of Veterinary Parasitology & National Symposium on “One Health Approach- Plausible solution for sustainable Parasite Control”. M.V.C. Chennai. 17 th to 19 th February 2016. Pg. 70.
12	Kavitha Rani, B., Manjunatha, S.S., Vinay, T.S., Satyanarayana, M. L. & Jayaramu, G. M. Foreign body induced Necrotic Oesophagitis in a <i>Lady Amhurst's Pheasant</i> . Compendium of 14 th Annual Conference of IAWV & National Seminar on “Recent Advances in Veterinary & Animal Sciences & Role of Women Veterinarians”. 8 th to 10 th October 2015. Pg. 201-202.
13	Kavitha Rani, B., Rathod, S.B., Ananda, K.J., Ganga Naik, S., Sunkad, C., Yashaswi Naravi, Manjunatha, S.S. & Jayaramu, G.M. Pathology of Tuberculosis in a Captive Leopard (<i>Panthera pardus</i>). Compendium of 8 th National Women's Science Congress-2015. Hebbal, Bengaluru. 7 th to 8 th November 2015. Pg. 50.

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

1	Shivakumar K. Radder, Shashidhar Ballari and Shambhulingappa, B.G., 2016. Mudhol Dog Rearing – A Novel Approach To Rural Entrepreneurship. In the Proceedings of the National Seminar on "Rural Enterprenuriship through Skill Development - New Approaches. 26-27, Feb, 2016 at Janapada Vishwavidyala, Gotgodi, Shiggaon, Dist. Haveri.
2	Shivakumar K. Radder, Usturge, S.M. and Prakashkumar Rathod, 2015. Yuva Chetana – An Innovative Extension Approach through Youth Mobilization. at <i>IVEF National Seminar on 28-29, Aug, 2015 at RAGACOVAS, Puducherry.</i>

KRISHI VIGYAN KENDRA, MANGALURU, DAKSHINA KANNADA

1	Harish Shenoy, Hanumanthappa, H., Suresh, K.R., & Ravindra, S. Patil, 2016. Technology Delivery Mechanisms of KVKs for Higher Productivity and Profitability in Agriculture. First KVK Symposium Zone VIII.
2	Harish Shenoy, Hanumanthappa, H. & Suresh, K.R., 2016. Production Technology of Vegetables in Costal Karnatak. First KVK Symposium Zone VIII.
3	Annappaswamy, T.S., Hanumanthappa, H. & Shivaprakash, S.M., 2016. Livelihood and nutritional security through Integrated Fish Farming and Poultry Farming First KVK Symposium Zone VIII.



FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

1	Basavaraju, Y. and Yashaswini, T.N., 2016. Sex manipulation in Common carp (<i>Cyprinus carpio</i>) as a tool for improving production traits-An over view. FCEN Proceedings.
2	Basavaraju.Y., Manjappa, N., Shivakumar Magada and Yashaswini, T.N., 2015. Development of brood bank for Amur common carp. Workshop Proceeding.

Abstract of Research Publications

<i>Division</i>	<i>Journal</i>		<i>Conference/ Symposium/ Seminar/ Workshops</i>		<i>Total</i>
	<i>Int.</i>	<i>National</i>	<i>Int.</i>	<i>National</i>	
Veterinary and Animal Sciences	96	195	30	339	660
Dairy Science	40	04	-	-	08
Fisheries Science	36	26	-	09	71
Total	136	225	30	348	739



2. Extension Publications (Books, training manuals, popular articles, leaflets etc)

VETERINARY COLLEGE, BENGALURU

Training Manuals

1. Naveen Kumar, S. and Jayashankar, M.R., 2015. Sheep breeds and selection. Manual of trainers training programme on Health management and AI in sheep organized by Dept. of AH & VS under RKVY, 30th – 31st, July 2015 at Veterinary College, Bengaluru.
2. Satyanarayan, K., Rajeswari, R., Rajeshwari, Y.B., Naveenkumar, S. and Yathiraj, S., 2015. Farmers Training Handbook (revised) - Sheep and Goat Rearing and Management, (Kannada).
3. Training manuals on “Techniques for exact identification and parasitic disease diagnosis in domestic animals” and “Techniques for identification of common animal parasites and diseases” has been prepared by Department of Veterinary Parasitology during the year 2015.

Chapters in Training Manuals

1. Krishnamurthy, T.N., Satheesha, G.M., Umashankar, B.C. and Umesh, B.U., 2015. Managemental practices to control parasitic diseases in Livestock and Poultry. Training Compendium on 'Parasitic diseases of domestic animals with special emphasis on diagnosis, treatment and control', organized by Dept.of Veterinary Parasitology, Veterinary College, Shivamogga.
2. Rathnamma, D., 2015. Application of different versions of PCR for diagnosis of Parasitic diseases in Animals. In: Training Manual of XIX National Training Programme on Techniques for exact identification and parasitic disease diagnosis in domestic animals organized by CAFT, Dept. of Parasitology, Veterinary College, Bengaluru, held during 16th Nov to 6th Dec, 2015.
3. Isloor, S., 2015. Advances in immunological & Molecular diagnosis of parasitic disease. In: Training Manual of XIX National Training Programme on Techniques for exact identification and parasitic disease diagnosis in domestic animals organized by CAFT, Dept. of Parasitology, Veterinary College, Bengaluru, held during 16th Nov to 6th Dec, 2015.
4. Rathnamma, D., 2016. i) Techniques in bacteriological isolation and identification' and ii) Good Microbiological laboratory practice (GMLP). In: Training Manual of ICAR-NAE training programme on Advanced techniques for diagnosis of infectious and systematic diseases in cattle, sheep, goat and dog. held during 18th to 22nd January, 2016 (I Batch) and 1st to 5th Feb, 2016 (II Batch).
5. Isloor, S., 2016. i) Sample collection labelling, storage, packing and transportation of samples for molecular diagnosis (with special reference to rabies) and ii) Hands on training (Molecular Biology)-PCR. In: Training Manual of ICAR-NAE training programme on Advanced techniques for diagnosis of infectious and systematic diseases in cattle, sheep, goat and dog. Held during 18th to 22nd January, 2016 (I Batch) and 1st to 5th Feb, 2016 (II Batch).

Popular articles

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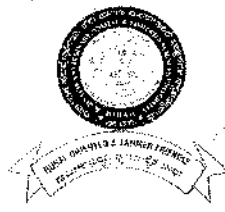


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Other Activities:

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2. Yathish, H. M. is working as Reviewer in *Indian Journal of Animal Science*, *Indian Journal of Dairy Science (National Journal)* and *Current Trends in Biotechnology and Pharmacy (International Journal)*.
3. Prakashkumar Rathod is working as Reviewer in *Indian Journal of Animal Science*, *Indian Journal of Dairy Science* and *Indian Journal of Field Veterinarian*.
4. Prakashkumar Rathod is working as Editorial Board member of *The Indian Journal of Veterinary Science and Biotechnology*.



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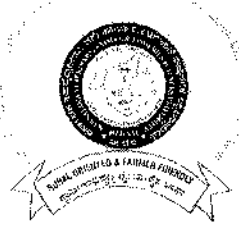


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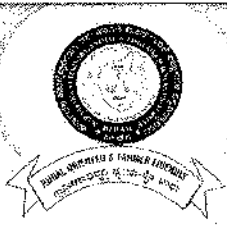
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12.	2015-16	Veeranna, K.C., Gopala, G.T. and Harisha, M.	Folder on Clean milk production
13	2015-16	Veeranna, K.C., Gopala, G.T. and Harisha, M.	Folder on Mastitis and its control
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INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

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Sl. No	Name of the Scientist	Title	Year & date of publication	Publisher / Remarks
Folder				
1	Shambhulingappa, B.G., Shivakumar K. Radder and Manjunath, B.V.	ಜಾನುವಾರುಗಳಿಗೆ ಮೇವಿನ ಬೆಳೆಗಳು.	2015	Animal Husbandry Polytechnic, Shiggaon under Sujala Gadag unit.
Booklet				
1	Shivakumar K. Radder and Shambhulingappa, B.G.	ಮೇವು ಆಂದೋಲನ		Directorate of Extension, KVAFSU, Bidar
Training Manuals				
1	Shivakumar K. Radder, Shambhulingappa, B.G. and Shashidhar Ballari	ವೈಜ್ಞಾನಿಕ ಹೈನುಗಾರಿಕೆ	2016	Animal Husbandry Polytechnic, Shiggaon
2	Shivakumar K. Radder Shambhulingappa, B.G. and Shashidhar Ballari	ವೈಜ್ಞಾನಿಕ ಹೈನುಗಾರಿಕೆ	2016	Animal Husbandry Polytechnic, Shiggaon



ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY, TIPTUR

Training Manuals

Sl. No.	Month & Year	Authors	Title of the Training Manual
1	2015-16	Shivkumar, R. Mohan, P. Rudraswamy, M.S. and Jayanna, A.S.	“ಕರುಗಳ ಪಾಲನೆ ಮತ್ತು ಪೋಷಣೆ”

LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLY, TIPTUR

Popular Articles:

Sl. No.	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	June-2015	Rudraswamy, M.S. Farm Superintendent LRIC(A), Konehalli and Chidananda Pateel AHP, Konehalli Tiptur	Koligalalli ola paravalambi jeevigalu	Krishimithra

Leaflets:

Sl. No.	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	2016	Mohan, P., Shivkumar, R., Rudraswamy, M.S. and Jayanna, A.S.	Navajaha Karugala palane mathu poshane	-

LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

Book

1. Prabhu, T.M., Manju, G.U., Manjunatha, S.S., Siddalinga Murthy, H.K. and Nagaraja, R., 2016. Sheep production and management. Directorate of Extension, KVAFSU, Bidar.

Popular Article

1. Prabhu, T. M. and Chandrapal Singh, K. Phase feeding in dairy cattle. Compendium of the one day workshop on “Advanced concepts in dairy cattle feeding practice” organized at Veterinary College, Hassan on 17th February 2016. Pg: 18-22.
2. Suresh, B.N. and Prabhu, T.M. Utilization of maize cobs and husk as a feed source for sustainable livestock production. Compendium of the one day workshop on “Advanced concepts in dairy cattle feeding practice” organized at Veterinary College, Hassan on 17th February 2016. Pg: 28-33.
3. Satyanarayana, M.L., Manjunatha, S.S. and Kavitha Rani, B. Disease Diagnostic Techniques in Livestock & their importance. ASCAD Compendium of Belagavi Divisional Level Technical Symposium organized at Dharwad on 20.06.2015. Pg: 28-34.
4. Manjunatha, S.S., Kavitha Rani, B., Anjan Kumar, K.R. and Satyanarayana, M.L. Collection, Preservation and dispatch of samples for disease diagnosis. ASCAD Compendium of Belagavi Divisional Level Technical Symposium organized at Dharwad on 20.06.2015. Pg: 40-47.



olders/ Leaflet prepared:

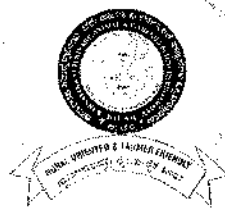
Sl. No.	Name of The Scientist	Title	Year and Date of Publication	Publisher/Remarks
1	Prabhu, T.M., Siddalinga Murthy, H.K. and Manjunatha, S.S.	Advanced sheep rearing practices: Folder (Kannada Version)	2015-16	LRIC(S), Nagamangala
2	Siddalinga Murthy, H.K., Prabhu, T.M. and Manjunatha, S.S.	Mega Sheep Seed Project on Mandya Sheep: Folder	2015-16	LRIC(S), Nagamangala
3	Manjunatha, S.S., Prabhu, T.M. and Siddalinga Murthy, H.K.	A brief introduction on Livestock Research & Information Centre (Sheep) – Folder	2015-16	LRIC(S), Nagamangala
4	Prabhu, T.M., Manjunatha, S.S. and Siddalinga Murthy, H.K.	Nutrition and feeding management in Sheep Folder (Kannada Version)	2015-16	LRIC(S), Nagamangala
5	Manjunatha, S.S., Prabhu, T.M. and Siddalinga Murthy, H.K.	Sheep Diseases & their prevention Folder (Kannada Version)	2015-16	LRIC(S), Nagamangala
6	Manjunatha, S.S., Prabhu, T.M. and Siddalinga Murthy, H.K.	Sheep Production Leaflet (Kannada Version)	2015-16	LRIC(S), Nagamangala

CANINE RESEARCH AND INFORMATION CENTER, THIMMAPUR, BAGALKOT

Sl. No.	Name of the Scientist	Title	Date of Publication	Name of the Publisher
1	Mahesh S. Dodamani	Handbook on Mudhol Hound rearing	25.04.2015	Mahesh S. Dodamani, Venkanagoudar Doddagoudar, Channappagouda Biradar and Suresh Kumar

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

Month & Year	Authors	Title of the Book	Name of the Publishers
January, 2016	Prabhudeva, K.N.	Meenina Haushadiya Gunagalu	Directorate of Extension, KVAFSU, Bidar



Training Manuals

#	Month & Year	Authors	Title of the Training Manual
01	February, 2016	Prabhudeva, K.N., Rajanna, K.B., Chethan, N. and Mohan, C.O.	Meenu mathu seegadiya moulyadaritha padarthagala thayarike mathu udyamasheelathe
02	March, 2016	Sathyanarayana , M.L., Suguna Rao, Chethan, N. and Rajanna, K.B.	Practical Manual on Aquatic animal diseases, health care and management. VPP 322 (1+1)

Popular Articles

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	September-October, 2015	Chethan, N., Nagendra Babu, R. S., Rajanna, K.B., Prabhudeva, K.N. and Reddy, H.R.V.	Plankton as Indicator of water quality	Aquaculture Times, Vol:1(2), 2015;21-24

Leaflets/ Bulletins/Folders

#	Type of Publication	Month & Year	Authors	Title of the Publication
1	Leaflets	September, 2015	Rajanna, K.B., Mohan Kumar, K.C., Chethan, N. and Vijaykumar, S.	Grameena Pradeshagallalli meenu krishi
2	Leaflets	September, 2015	Rajanna, K.B., Mohan Kumar, K.C., Chethan, N. and Vijaykumar, S.	Jamboo hapagalalli meenu sakanike
3	Leaflets	September, 2015	Rajanna, K.B., Mohan Kumar, K.C., Chethan, N. and Vijaykumar, S.	Alankarika meenu uthpadane
4	Leaflets	September, 2015	Rajanna, K.B., Mohan Kumar, K.C., Chethan, N. and Vijaykumar, S.	Neeru sangrahana kolagallalli meenu sakanike
5	Leaflets	October, 2015	Prabhudeva, K.N. Rajanna, K.B. and Chethan, N.	Mishra meenu sakane
6	Leaflets	October, 2015	Shankar, K.M., Pranhudeva, K.N. and Ramesh, K.S.	Krishi upa uthpanna balasi menu sakanike



FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

Training Manuals

#	Month & year	Authors	Title of the Training Manual
1	Dec 2015	Basavaraju, Y. and Manjappa, N.	Fish culture in natural tank
2	Jan 2016	Basavaraju, Y. and Yashaswini, T.N.	Support for Livestock and Extension activities -- KVAFSU, Sujala-III Project
3	Feb 2016	Basavaraju, Y. and Manjappa, N.	Integrated fish culture

Popular Articles

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	May, 2015	Basavaraju, Y. and Yashaswini, T. N.	Alankarika meenugarike mathu adhara nirvahane (Kannada)	Sharad krishi
2	April, 2015	Basavaraju, Y., Yashaswini, T.N. and Sathyanarayan, K.	Amur – sudharitha Thalli (Kannada)	Sharad krishi

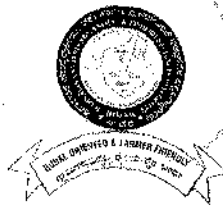
Leaflets/Bulletins/Folders

#	Type of Publication	Month & Year	Authors	Title of the Publication
1	KVAFSU, BIDAR	March 2016	Basavaraju, Y. Yashaswini, T.N. and Manjappa, N.	Vishvavidyanilayadinda bidugade gonad Amur Thalli (Kannada)

FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

Books, training manuals, popular articles, leaflets etc

1. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಮಾರ್ಚ್- 2015.ಗ್ರಾಮೀಣ ಜನರ ಆರ್ಥಿಕ ಸುಸ್ಥಿರತೆಗೆ ಲಾಭದಾಯಕ ಸಮಗ್ರ ಮೀನು ಕೃಷಿ, ಪಶು ಸಿರಿ. ಪಿ.ಪಿ 19-23.
2. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಮಾರ್ಚ್- 2015.ದೇಹಾರೋಗ್ಯದ ದೃಷ್ಟಿಯಲ್ಲಿ ಮೀನು ಪಶು ಸಿರಿ. ಪಿ.ಪಿ 29-31.
3. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಮಾರ್ಚ್- 2016. ಮೀನು ಸಾಕಿ ಪೂರಕ ಆದಾಯ ಪಡೆಯಬಹುದು, ಕೃಷಿ ಮುನ್ನಡೆ. ಪಿ.ಪಿ 24-25.
4. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಜನವರಿ - 2016. ಸುಧಾರಿತ ಒಳನಾಡು ಮೀನು ಕೃಷಿ ಕೃಷಿ ಪೇಟೆ. ಪಿ.ಪಿ 14-16.
5. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಎಪ್ರಿಲ್ - 2015. ಸಿಹಿ ನೀರು ಸಿಗಡಿ ಕೃಷಿಯಲ್ಲಿ ಕಂಡುಬರುವ ರೋಗಗಳು ಮತ್ತು ಅವುಗಳ ಹತೋಟಿ, ಕೃಷಿ ಮೀತ್ರ.
6. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಜನವರಿ - 2015, ಮೀನು ಸಾಕಾಣಿಕೆಯಲ್ಲಿ ಕೃತಕ ಆಹಾರದ ಬಳಕೆ, ಪಶು ಸಿರಿ.
7. ವಿಜಯಕುಮಾರ. ಎಸ್. ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಮತ್ತು ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಜನವರಿ - 2015, ಸಿಹಿ ನೀರು ಸಿಗಡಿ ಕೃಷಿಯಲ್ಲಿ ನೀರಿನ ಗುಣಮಟ್ಟ ಮತ್ತು ನಿರ್ವಹಣೆ, ಕೃಷಿ ಮೀತ್ರ, ಏಪ್ರಿಲ್-2015.
8. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಏಪ್ರಿಲ್-2015, ಸಿಹಿ ನೀರು ಸಿಗಡಿ ಕೃಷಿಯಲ್ಲಿ ಕೊಳದ ತಯಾರಿ, ಕೃಷಿ ಮೀತ್ರ.



9. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಜುಲೈ-2015, ಸುಧಾರಿತ ಮೀನು ಕೃಷಿ, ಪಶು ಸಿರಿ.
10. ವಿಜಯಕುಮಾರ. ಎಸ್. ಮತ್ತು ಗಣೇಶಪ್ರಸಾದ. ಎಲ್, ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಅಕ್ಟೋಬರ್-2015.ಮೀನು ಕೃಷಿಯಲ್ಲಿ ಸಾವಯವ ಹಾಗೂ ರಾಸಾಯನಿಕ ಗೊಬ್ಬರಗಳ ಬಳಕೆ, ಕೃಷಿ ಭೂಮಿ.
11. ವಿಜಯಕುಮಾರ. ಎಸ್. ಶ್ರೀ. ಹರಿಶ್ಚಂದ್ರ ಜಾಧವ, ಮತ್ತು ಡಾ. ವಿಜಯ.ಎಸ್.ಅತನೂರ ಅಕ್ಟೋಬರ್-2015. ಸುಧಾರಿತ ಮೀನು ಕೃಷಿ, ಕೃಷಿ ಮಿತ್ರ.

ಕರಪತ್ರ/ ಮಡಿಕೆಗಳು:

1. ಲಾಭದಾಯಕ ಮಿಶ್ರ ಸಿಹಿ ನೀರು ಸಿಗಡಿ ಮತ್ತು ಮೀನು ಸಾಕಾಣಿಕೆ.
2. ಸಾಮಾನ್ಯವಾಗಿ ಮೀನುಗಳಲ್ಲಿ ಕಂಡು ಬರುವ ಪರೋಪಜೀವಿ ರೋಗಗಳು ಮತ್ತು ಅವುಗಳ ನಿಯಂತ್ರಣ.
3. ಲಾಭದಾಯಕ ಮೀನು ಕೃಷಿ.
4. ಗ್ರಾಮೀಣ ಪ್ರದೇಶದಲ್ಲಿ ಲಾಭದಾಯಕ ಮೀನು ಸಾಕಣೆ
5. ಮಳೆಗಾಲದಲ್ಲಿ ಸಾಮಾನ್ಯವಾಗಿ ಮೀನು ಸಾಕಣೆಅಥವಾ ಜಲ ಕೃಷಿಯಲ್ಲಿಕಂಡು ಬರುವ ತೊಂದರೆಗಳು.
6. ಜಂಬೂ ಹಾಪಾದಲ್ಲಿ ಮೀನು ಮರಿ ಪಾಲನೆ.
7. ನೀರು ಸಂಗ್ರಹಣಾ ಕೊಳಗಳಲ್ಲಿ ಮೀನು ಸಾಕಣೆ.
8. ಅಲಂಕಾರಿಕ ಮೀನು ಉತ್ಪಾದನೆ.

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

Books

#	Month & Year	Authors	Title of the Book	Name of the Publishers
1	April -2015	Kum. Shweta, K., Hanumanthappa, H. and Harish Shenoy	Processing and value addition of Cashew apple	KVK, DK, Mangalore
2	June-2015	Kum. Shweta, K., Hanumanthappa, H., Harish Shenoy, Annappaswamy, T.S., Suresh K.R., Ravindra Patil and Sanganaagouda	Cultivation of Jackfruit and its Value Addition	KVK, DK, Mangalore
3	September-2015	Harish Shenoy, Hanumanthappa, H., Annappaswamy, T.S., Ravindra Patil and Sanganaagouda	Modern technologies in Agriculture, Horticulture and Fisheries	KVK, DK, Mangalore
4	October-2015	Hanumanthappa, H., Suresh, K.R., Bhagyashree R. Chittaragi and Harish Shenoy	Improved cultivation Practices of Coconut	KVK, DK, Mangalore
5	December-2015	Hanumanthappa, H., Suresh K.R., Bhagyashree R. Chittaragi and Harish Shenoy	Improved cultivation Practices of Coconut	KVK, DK, Mangalore

Popular Articles

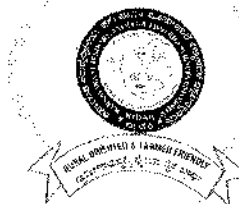
#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	October -2015	Harish Shenoy	Importance of boron in agril. and Hort. Crops.	Krishi Jagarane pp 31-32
2	November-2015	Harish Shenoy and Hanumanthappa, H.	Post Harvest Technology & Value added products of	Krishi Bimba Patrike, Vol No. 14, Issues : 12, Page No. 13-16



			Paddy	
3	December-2015	Harish Shenoy	ಮಣ್ಣು ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಹೊದಿಕೆ ಬೆಳೆಗಳ ಪಾತ್ರ	Krishi Bemba Pathrike, Vol No. 15(3), Page No. 9-10
4	January-2016	Harish Shenoy and Ravindra S.Patil	Green manure crops boon to farmers	Krishi Jagarane pp 49-51
5	February-2016	Harish Shenoy and Ravindra S. Patil	Green manure crops boon to farmers	Krishi Bimba Patrike, pp 16-18, Vol No. 15(3)
6	March-2016	Harish Shenoy	Role of Zine in paddy	Krishi Bemba Pathrike, PP. 9-10, Vol No. 15(4)

Leaflets/ Bulletins/Folders

#	Type of Publication	Month & Year	Authors	Title of the Publication
1	Folders	August-2015	Ravindra Patil, Sanganagouda, Harish Shenoy and Hanumanthappa, H.	Cultivation of black pepper
2	Folder	March-2016	Harish shenoy and Hanumanthappa, H.	Improved cultivation practices of green gram in coastal region
3	Folder	March-2016	Annappaswamy, T.S., Hanumanthappa, H. and Bhagyashree R. Chittaragi	Scientific fish culture
4	Folder	March-2016	Annappaswamy, T.S., Hanumanthappa, H. and Bhagyashree R. Chittaragi	Integrated fish farming
5	Folder	March-2016	Miss Punitha, B.C., Harish Shenoy and Thejesha A.G.	Improtant of Soil testing
6	Folder	March-2016	Harish Shenoy, Miss Punitha B.C. and Thejesha, A.G.	Production technologies of vermi-compost
7	Folder	March-2016	Thejesha, A.G., Harish shenoy, Patil R.S. and Hanumanthappa, H.	Mushroom Cultivation



V. FINANCE AND BUDGET

RECEIPTS AND PAYMENTS FOR THE YEAR 2015-16 (ACCOUNTS)							
RECEIPTS				EXPENDITURE			
Sl. No	Particulars	Plan	Non-Plan	Sl. No	Particulars	Plan	Non-Plan
A	GENERAL FUNDS			A-I	GENERAL FUNDS		
I-1	Salary & Recurring Charges			i	Salaries & Recurring Charges		
a)	Non-Plan Grants	0.00	8478.00	a)	General Administration	206.10	1561.40
b)	Plan Grants	448.00	0.00	b)	Teaching	578.50	6600.82
2	Capital Grants	3800.00	0.00	c)	Research	150.40	557.25
3	SCP/TSP Grants (Revenue)	400.00	0.00	d)	Extension	40.00	56.53
4	SCP/TSP Grants (Capital)	200.00	0.00	2	Capital Expenditure	6416.83	0.00
5	State Adhoc Grants	0.00	0.00	3	Expenditure under SCP/TSP Grants (Revenue)	400.00	0.00
	TOTAL-A (I)	4848.00	8478.00	4	Expenditure under SCP/TSP Grants (Capital)	200.00	0.00
II	GRANTS FROM OTHER AGENCIES	0.00	0.00	5	State Adhoc Projects	0.00	0.00
III	Government of India Grants	0.00	0.00		TOTAL-A (I)	7991.83	8776.00
IV	ICAR, New Delhi			II	Schemes Sponsored by other Agencies	0.00	0.00
a)	Development Grants	0.00	0.00	III	Government of India Schemes	0.00	0.00
b)	Co-ordinated Projects	0.00	0.00	IV	ICAR, New Delhi		
c)	MCM / RAWE / RGN / Fellowship / Internship Allowance	0.00	0.00	a)	Development	0.00	0.00
d)	Library Strengthening	0.00	0.00	b)	ICAR Co-ordinated Projects (75%)	0.00	0.00
e)	NAIP Projects	0.00	0.00	c)	ICAR Co-ordinated Projects (100%)	0.00	0.00
f)	Krishi Vigyan Kendra	0.00	0.00	d)	NAIP Projects	0.00	0.00
	TOTAL-A (II+III+IV)	0.00	0.00	e)	Krishi Vigyan Kendra	0.00	0.00
V	INTERNAL RESOURCES				TOTAL-A (II+III+IV)	0.00	0.00
a)	Income from Fees	0.00	260.00				
b)	Income from University Property	0.00	177.40				
c)	Other Misc. Income	0.00	387.60				
	TOTAL-A (V)	0.00	825.00				
	TOTAL-A (I+II+III+IV+V)	4848.00	9303.00		TOTAL-A (I+II+III+IV)	7991.83	8776.00
B	FOUNDATION FUNDS			B	FOUNDATION FUND	0.00	0.00
C	DEPT & SUSPENCE A/C.	0.00	5510.00	C	DEBT & SUSPENCE A/C.	0.00	5510.00
	TOTAL (A+B+C)	4848.00	14813.00		TOTAL (A+B+C)	7991.83	14286.00
	Add: Opening Balance	1315.85	-3540.20		Add: Closing Balance	-1827.98	-3013.20
	GRAND TOTAL	6163.85	11272.80		GRAND TOTAL	6163.85	11272.80



VI. GENERAL ADMINISTRATION

1) Recruitment & Promotion of Teaching & Non-Teaching staffs for the Year 2015-16

#	Cadre	Direct/ Backlog Recruitment	Compensatory Appointment	Name of the Promoted Teachers
01	Professor	-	-	1. Dr.N.Prakash 2. Dr.V.Chandrashekara Murthy 3. Dr.M.K.Tandle 4. Dr.Vivek.R.Kasaralikal 5. Dr.C.Ansar Kamran 6. Dr.Ramachandra.B 7. Dr.prabhu.T.M 8. Dr.Vijayakumar .B.Shettar 9. Dr.N.V.Jdhav 10. Dr.M.C.Shivakuamr 11. Dr.K.C.Veeranna 12. Dr.Ganapathi Naik 13. Dr.H.N.Anjanayappa 14. Dr.S.R.Somashekar 15. Dr.S.Vardaraju 16. Dr.B.Hanumathappa 17. Dr.Manjunath.H 18. Dr.H.Arunkumar 19. Dr.A.Sachindra Babu 20. Dr.Yashwant Kumar 21. Dr.M.D.Surangi
02	Associate Professor	-	-	1. Dr. G.C.Puttalaxamma 2. Dr.R.G.Bijurakar 3. Dr.T.M.Prabhu 4. Dr.H.K.Siddalinga Murthy 5. Dr.Prashant G.Waghmare 6. Dr.Lakshmipathi 7. Dr.A.T.Ramchandra Naik 8. Dr.Manja Naik.B 9. Dr.Shashidhar H. Badami 10. Dr.Jagadeesh S.Sanganal 11. Dr.Shivakuamar.M 12. Dr.Suresh.L 13. Dr.G.M.Jayaramu
03	Assistant Professor	-	-	1. Dr. S.Ganga Naik 2. Dr. Lakshmishree K.T 3. Dr.G.P. Kalmath 4. Dr.A.M.Kotresh 5. Dr.Vijayakuamr.M 6. Dr.Sunilchandra.U 7. Dr.Ravikumar.C 8. Dr.N.B.Sridhar 9. Dr.Sharada.R 10. Dr.B.E.Shamulingappa 11. Dr.Veere Gouda.B.M



12. Dr. Shrikrishan Isloor
13. Dr. Ananada K.J
14. Dr. Kavitha Rani. B
15. Dr. G. Sudha
16. Dr. Mahesh. S. Dodamani
17. Dr. B.M Ravindranatha
18. Dr. M.C. Anilkumar
19. Dr. Patel Suresh Revanna
20. Dr. Santosh Sarangamath
21. Dr. Deepti B.R
22. Dr. Kshama. M.A
23. Dr. Ravindra. B.G
24. Dr. Sandeep Halmandge
25. Dr. K.M. Srinivasa Murthy
26. Dr. Ravi Raidurga
27. Dr. Pradeep Kuar
28. Dr. Leena Gouda
29. Dr. M.S. Rudra Swamy
30. Dr. Suresh B.N
31. Dr. G.S. Naveenkumar
32. Dr. R. Jayashree
33. Dr. Rudresh B.H
34. Dr. Malathi. V
35. Dr. S.B. Prasann
36. Dr. Vivek M. Patil
37. Dr. Krishan Murthy T.N
38. Dr. B. Jaganatha Rao
39. Dr. S. Wilfred Ruban
40. Dr. Devaraj Naik. H
41. Dr. V. Jagadeeshwary
42. Dr. Manjunatha .L
43. Dr. Shivakumar Radder
44. Dr. Mahesh Kumar. G
45. Dr. Sharana Gouda .B. Patil
46. Dr. Ramachandra. B
47. Dr. Prabha. R
48. Dr. Mridula Rajesh
49. Dr. K.B. Rajanna
50. Dr. N. Manjappa
51. Dr. Naveenkumar. S
52. Dr. Satish Chandra Biradar
53. Dr. Ravikuamr. B.P



04	Non-Teaching Staff		<ol style="list-style-type: none"> 1. Sunilkumar (Assistant) 2. Channappa (Messenger) 	<ol style="list-style-type: none"> 1. Sri.Subhash hosur = AR to Deputy Registrar 2. Sri.Ramappa.H.Korwar =AEE to EE (Civil) 3. Sri Veerabhadrapppa Uppin =AC to Deputy Comptroller 4. Sri. K.L.Suresh = AC to Deputy Comptroller 5. Sri. Ramachandra =Sr.Field Assistant to Grade-I 6. Sri.Prabusing pawar= Sr. Pharmacist to Grade-I 7. Sri.Nagegowda= Assistant to Sr.Assistant 8. Smt.Lathabai.B.K = Assistant to Sr.Assistant 9. Sri. Krishanayya A.S = Assistant to Sr.Assistant 10. Smt. K.T Sharda = Sr. Typist to Grade-I 11. Sri. Chikkaanjanappa = Attender to Lab Assistant 12. Sri. Narsegouda = Attender to Lab Assistant 13. Sri. J.Guruprasad = Attender to Lab Assistant 14. Sri. Vittal B.Gorgj = Lab Assistant (D to C) 15. Sri. Thimma Reddy = Lab Assistant (D to C) 16. Sri. Ashok Manayya = Lab Assistant (D to C) 17. Sri. Surekanth.k = Lab Assistant (D to C) 18. Sri. Peersab Mehboob Sab = Field Assistant (D to C) 19. Sri. K.M.Narayan = Field Assistant (D to C) 20. Sri. M.B.Somalingaiah = Field Assistant (D to C) 21. Sri. Nagesh Devadiga = Field Assistant (D to C) 22. Sri. Venkateshaiah = Field Assistant (D to C) 23. Sri. K.Chika Hanumanthaiah =Field Assistant(D to C) 24. Sri.V.N.Naik = Field Assistant (D to C) 25. Sri. Devadas Kava = Field Asst (D to C)
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				25. Sri. Devadas Kava = Field Asst (D to C) 26. Sri.M.Krishappa = Field Asst (D to C) 27. Sri. Kumarswamy = Field Asst (D to C) 28. Sri. Sadanand.Y.Bhoiy =Lab Assistant (D to C) 29. Sri. H.Ganesh =Lab Asst (D to C) 30. Sri. Rangaswamy = Lab Asst (D to C) 31. Sri.L. Shashidhar = Lab Asst (D to C) 32. Smt. R.Nandini = Lab Assistant (D to C) 33. Sri. Premanath = Lab Assistant (D to C) 34. Sri. J.L.Venkatesh = Lab Asst (D to C) 35. Sri. L.N.Bettaswami =Lab Assistant (D to C) 36. Sri.Ramappa Kashaappanavar=Lab Assistant(DtoC) 37. Sri. Arjun Gudadur = Lab Assistant (D to C) 38. Sri. L.Kempanna = Lab Assistant (D to C)
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2) Superannuation

List of Superannuated Employees of KVAFSU, Bidar between 01-04-2015 to 31-03-2016

#	Employs Name Designation & Place	Empl. No.	Date of Birth	Date of Super-annuation	Retirement dated
TEACHING STAFF					
1	Dr. K.V. Mohire Professor Fisheries Research & Information Center Hebbal, Bengaluru	1117	14.01.1954	14.01.2016	31.01.2016
2	Dr. S.N. Satyanarayanappa Professor & Head Livestock Research & Information Center Konehalli, Tiptur	1098	12.02.1954	12.02.2016	29.02.2016
3	Dr. N.V. Jadhav Professor Veterinary College, Bidar	1055	09.06.1954	09.06.2016	30.06.2016
4	Dr. S. Benakappa Professor College of Fisheries Mangaluru	1036	13.08.1954	13.08.2016	31.08.2016



5	Dr. V.G. Bhata Professor College of Fisheries Mangaluru	1039	17.09.1954	17.09.2016	30.09.2016
6	Dr. K.M. Shankara Professor & Dean College of Fisheries Mangaluru	1100	01.10.1954	30.09.2016	30.09.2016
7	Dr. H.J. Ramachandra Professor & Head Dairy Science College Hebbal, Bengaluru	1092	03.11.1954	03.11.2016	30.11.2016
8	Shri. L. Mahalingayya Associate Professor Dairy Science College Hebbal, Bengaluru	1070	03.11.1954	03.11.2016	30.11.2016
NON-TEACHING STAFF					
1	Shri. A. Timmappa Attendar College of Fisheries, Mangaluru	1374	01.02.1954	31.01.2016	31.01.2016
2	Shri. N. Satyarayanarav Attendar Veterinary College Hebbal, Bengaluru	1365	10.01.1956	10.01.2016	31.01.2016
3	Shri. D. Nagaraju Lab Technician IAH&VB Hebbal, Bengaluru	1038	07.01.1956	06.01.2016	31.01.2016
4	Shri. AdayyaSwami Sr.Filed Assistant, Veterinary College, Bidar	1567	13.01.1956	12.01.2016	31.01.2016
5	Shri. Chamaraju Sr. Jyanitara Grade-1 Veterinary College Hebbal, Bengaluru	1410	09.02.1956	09.02.2016	29.02.2016
6	Smt.P.H.Nalini Sr.Lab Tecanition, Dairy Science College Hebbal, Bengaluru	1246	18.03.1956	18.03.2016	31.03.2016
7	Smt.Kamamma Sr.Animal Attendar Grade-1 Veterinary College Hebbal, Bengaluru	1435	27.03.1956	27.03.2016	31.03.2016



VII. INFRASTRUCTURE DEVELOPMENT

Details of progress of works under taken by KVAFSU during the year 2015-16

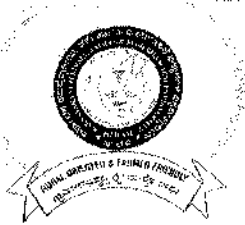
#	Name of Work	Tender Amount in Lakhs
1	Construction of PG Hostel Building at KVAFSU, Bidar	200.00
2	Construction of staff quarters at KVAFSU, Bidar	80.00
3	Construction of Small Animal House at Veterinary College, Hassan	70.00
4	Construction of Quarters for Hon'ble Vice-Chancellor at KVAFSU, Bidar	90.00
5	Construction of Compound wall at KVAFSU, Bidar	150.00
6	Development of existing roads and drainage at KVAFSU, Bidar	100.00
7	Construction of Canteen building at KVAFSU, Bidar	50.00
8	Construction of Indoor Stadium at KVAFSU, Bidar	75.00
9	Construction of cross bred sheep shed Regional Office at Veterinary College, Hebbal, Bengaluru	59.00
10	Completion of SC/ ST Hostel at Veterinary College, Hebbal (Balance Work)	50.00
11	Construction of First Floor over Boys Hostel at College of Fisheries, Mangaluru	127.10
12	Construction of Boys Hostel at AHP, Konehally	140.00
13	Construction of Dispensary Unit Building at KVAFSU, Bidar (Health Centre)	20.00
14	Construction of Farmers Hostel Building (Balance Works) at Veterinary College, Hebbal, Bengaluru	38.25
15	Construction of Cemented Fish Ponds at FRIC, Hebbal, Bengaluru	29.00
16	Construction of Mini Slaughter House at Veterinary College, Hassan	41.00
17	Construction of Cattle Sheds at Veterinary College, Hassan	40.50
18	Construction of Goat and Sheep Sheds at Veterinary College, Hassan	40.50
19	Renovation and modernization of existing conference hall at Veterinary College, Hebbal, Bengaluru	20.00
20	Construction of Animal hold shed at 60 ftx40ft at Regional Office, Hebbal, Bengaluru	25.00
21	Construction of Small Ruminant Semen Station at Regional Office, Hebbal, Bengaluru	38.50
22	Renovation to the existing Veterinary College Hostel, Hebbal, Bengaluru	21.54
23	Painting and surface water drain for boys hostel Ganga Block, College of Fisheries, Mangaluru	12.25
24	Repair works of toilets of boys hostel Ganga Block, College of Fisheries, Mangaluru	7.00
25	Repair works of toilets of boys hostel Sharavathi block, College of Fisheries, Mangaluru	5.30



26	Painting works boys hostel Sharavathi block, College of Fisheries, Mangaluru	7.20
27	Providing Tata GI colour coated sheet roof over RCC roof and other repair works of Shravathi block, College of Fisheries, Mangaluru	14.95
28	Providing Tata GI colour coated sheet roof over RCC sloped roof and other repair works of kitchen building, boys hostel, College Fisheries, Mangaluru	14.74
29	Providing Tata GI colour coated sheet roof over RCC sloped roof and other repair works of dining hall, boys hostel, College Fisheries, Mangaluru	14.95
30	Repair works of Electrical wiring, boys hostel Ganga block and Sharavathi block, College Fisheries, Mangaluru	3.50
31	Construction of septic tank for Boys hostel, College Fisheries, Mangaluru	9.05
32	Providing Electrical connection to newly built poultry, hatchery, postmortem & mini slaughter house at Veterinary College, Bidar	5.00
33	Deepening of existing open well at Veterinary College, Bidar	12.00
34	Drilling of bore wells with Pumps(2 Nos) at Veterinary College, Bidar	4.75
35	Providing granite flooring to washing area to mess and providing washing facility on the existing washing room of girls hostel at Veterinary College, Bidar	3.00
36	Providing and installing 62.50 KVA DG set to Estate Office, Bidar	9.85
37	Providing HT line connection to Dairy Science College Mahagaon Cross, Kalaburagi	12.66
38	Providing Asphaltting of Road from main entrance to Chandra Nagar Village at Dairy Science College Mahagaon Cross, Kalaburagi	14.98
39	Providing ward Robe to Boys Hostel First Floor at Dairy Science College Mahagaon Cross, Kalaburagi	14.99
40	Construction of Compound wall at Dairy Science College, Mahagaon Cross, Kalaburagi	14.95
41	Providing and fixing Electrical line to Animal Shed at BRIC, Dornalli	4.60
42	Formation of WBM Road From Main Entrance to Animal Shed at BRIC, Dornalli	10.00
43	Construction of Cattle Shed at BRIC, Dornalli	3.00
44	Construction of Compound wall to Fish pond at FRIC, Butnal, Bijapur	5.00
45	Construction of Barbed wire Fencing to Laboratory at FRIC, Butnal	10.00
46	Providing and constructing Toilet and bathroom to temporary students hostel AHP, LRIC(A), Konehalli	6.50
47	Construction of watchman shed and room for ATM facility at College of Fisheries, Mangaluru	6.75
48	Construction of vehicle Parking (two Wheelers) Place, College of Fisheries, Mangaluru	5.60
49	Provision of sump tank to near swimming pool at College of Fisheries, Mangaluru	8.02
50	Repair of water supply pipeline for laboratories at College of Fisheries, Mangaluru	7.16



51	Surface water drain at college campus area at College of Fisheries, Mangaluru	14.03
52	Repair of sewage system at College of Fisheries, Mangaluru	11.00
53	Providing of septic tank and sewage line for Technology wing at College of Fisheries, Mangaluru	14.00
54	Provision of Interlock paver path between dining hall and hostel at College of Fisheries, Mangaluru	5.75
55	Providing of cloth washing sheds for the boys hostel blocks and repair of toilet washing place of dining hall Boys Hostel, College of Fisheries, Mangaluru	8.90
56	Providing TATA GI colour coated sheet roof over and other repair works of ladies hostel old block, College of Fisheries, Mangaluru	14.99
57	Providing and Fixing barbed wire fencing of AH Polytechnic, Shiggoan	10.00
58	Providing Drilling of Bore well & installation of motor at AH Polytechnic, Shiggoan	2.00
59	Providing concrete road to main gate from store shed at FRIC, Ankola	14.98
60	Providing concrete road to fish land to staff quarters shed at FRIC, Ankola	4.98
61	Renovation of 'D' type quarters at Veterinary College, Hebbal Campus, Bengaluru	7.00
62	Renovation of 'E, F & G' Type Quarters at Veterinary College, Hebbal Campus, Bengaluru	13.00
63	Renovation of Human Dispensary at Veterinary College, Hebbal Campus, Bengaluru	14.90
64	Renovation of Hospital block by providing chain link fencing at Veterinary College, Hebbal Campus, Bengaluru	14.05
65	Renovation of UG/PG Laboratory and attending electrical works at Veterinary College, Bidar	1.99
66	Attending maintenance and repair works of ILFC Dept at Veterinary College, Bidar	5.40
67	Attending repair works at clinical complex Veterinary College, Bidar	3.46
68	Rearranging of drainage of Nandini Girls Hostel, Boys Hostel at Veterinary College, Bidar	2.92
69	Modernization of new examination/ conference hall and sports ground toilet repair works at Veterinary College, Bidar	1.97
70	Providing chain link mesh compound /gate new examination hall at Veterinary College, Bidar	6.20
71	Providing Biogas plant to Livestock at Veterinary College, Bidar	1.96
72	Construction of pump house near boys hostel at College of Fisheries, Mangaluru	6.75
73	Construction of sump tank for Boys hostel at College of Fisheries, Mangaluru	9.25



75	Providing acoustic veneer paneling to class room No.2 at Veterinary College, Hassan	9.00
76	Renovation of Immunology laboratory Dept. Microbiology/Pathalogy Veterinary College, Hebbal, Bengaluru	5.85
77	Renovation of Histopathology UG/PG Veterinary College, Hebbal, Bengaluru	5.65
78	Renovation of Lab parasitology / Medicine / TVCC at Veterinary College, Hebbal, Bengaluru	7.50
79	Renovation of UG Lab Dept LPM/AHE/Nutrition and providing new desks at Veterinary College, Hebbal, Bengaluru	8.00
80	Providing new wiring of Histopathology / panel board and electrical works in all laboratories at Veterinary College, Bengaluru	5.00
81	Renovation and Modernization of Dairy Engineering, Dairy Microbiology / Dairy Chemistry and Dairy Technology Dept. at Dairy Science College, Hebbal, Bengaluru	9.50
82	Renovation to existing class room, Lab and Physical Education Department at Dairy Science College, Hebbal, Bengaluru	4.50
83	Construction of Boys Hostel at AHP, Konehally, Tiptur (Second Call)	140.00



Inauguration of National Mathasya Mela - 2016 by Mayor Jesuitha Alfred

GLIMPSES OF THE MATHASYA MELA - 2016



Ornamental fish draw people in droves

Cost Ranges Between ₹45 And ₹45,000

Photo: Anil S. Kumar

Mangaluru: Mangalureans were transported to a surreal world of ornamental fish at Matsya Mela 2016. For the public it was a graduation from simple Goldfish costing Rs 40 per fish to exotic fish that cost 600 times the price.

On display were some of the cutliest ornamental fish including Saltwater Stingray (Rs 23,000), Flowerhorn (Rs 45,000), Alligator fish (Rs 30,000 to Rs 10,000) and Morel Eel (Rs 15,000).

that imitates the natural environment. "The public were enthused about the nature aquariums. They are 10 times costlier than the regular aquariums. There have been enquiries about exotic and ornamental fish also," said Darshan Kumar from Casa Aqua.

If a commonly available two-foot aquarium cost Rs 1,500, the crystal glass aquariums cost Rs 10,000 and upwards. The four to five ft crystal glass aquariums cost in excess of a lakh. "The spend is worth it since proper environment and water without chlorine or heavy metals will see the fish live for more than two decades," he said.

One of the costliest fish that Casa Aqua has is Arapaima, which was not on display in Mangaluru. "They are native to Amazon and have to be imported from South America. They are among the world's largest freshwater fish reaching as much as eight ft," he said. The cost is in the region of Rs 20,000 to 30,000 for an eight inch Arapaima. The fish is usually left in a pond after it attains a growth of three to four feet.

There were also varieties of Arowana fish, which is popular in southeast Asia and reached Indian shores a month ago and is in high demand. Darshan said while Silver Arowanas are easily available at a lower cost starting at Rs 2,000, the rare availability of Golden Arowanas makes it costly and prices go beyond Rs 60,000.



Ornamental fish Silver Arowana at Matsya Mela-2016; the long queue outside the mela venue, Tiger Bazaar, another ornamental fish.



MELA

Flowerhorn Cichlids, costing Rs 45,000, were a main crowd puller. It is an ornamental aquarium fish noted for its vivid colours and distinctively shaped heads for which they are famed.

Likewise, Blood Parrot Cichlids, man made hybrids that do not exist in the wild, also drew crowds in large numbers. First developed in Malaysia, Thailand, and Taiwan, they became very popular with Asian fish hobbyists.

It was Casa Aqua, Bengaluru, which provided the fish as well as the aquarium made of crystal glass.

A day of outing at Pilikula lake

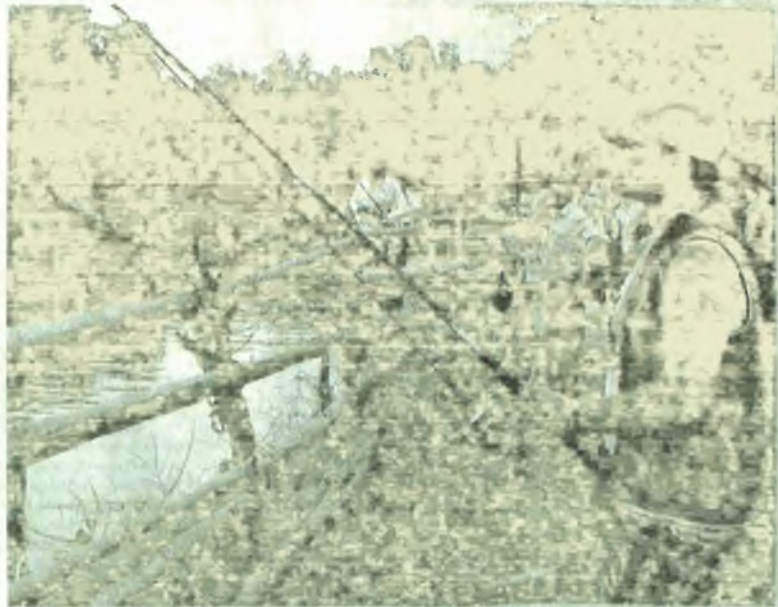
STAFF CORRESPONDENT

MANGALURU: Galvin Thomas and his college mate Sukreet Ullal heard about angling at Pilikula during their visit to the Matsya Mela at T.M.A. Pai Convention hall on Saturday. The two B.Sc. students at St. Aloysius College were at the Pilikula lake on Sunday to experience angling.

"We are amateur anglers. We are not sure how much we can catch compared with professionals," Mr. Thomas said while referring to the presence of Mangalore Angling Club members at the lake. "But it's a good time pass on a Sunday," he said. Mr. Thomas had come with his fishing rod while Sukreet had brought corn and wheat batter, which was used as bait.

Laxman Jogi and his three friends, who had come from Moodushegde, were not hopeful of a good catch. "The ideal time for angling will be early in the morning or late in the evening. Rarely fish come to the surface in this sunny climate," Mr. Jogi said. "We could have had a good fish meal for Rs. 400 (which is fee paid for angling by the four anglers)," Mr. Jogi's friend Lakshmi said.

They were among the 20 anglers who took part in the on-line programme organised by the fishery department at Pilikula. Matsya Mela, the annual fish fair, was held at the Pilikula lake on Sunday.



People participating in an angling competition at Pilikula lake in Mangaluru on Sunday.

— PHOTO: N.S. MURUGESH

Second edition of angling competition at Pilikula lake attracts 20 anglers

The fishery department at Pilikula lake organised a second edition of the on-line programme to be held on Sunday.

Compared with last year the arrangements were much better. "We are happy that the anglers who have not fished a lot are now participating in the competition," said the fishery officer, Mangaluru, N.S. Murugesu.

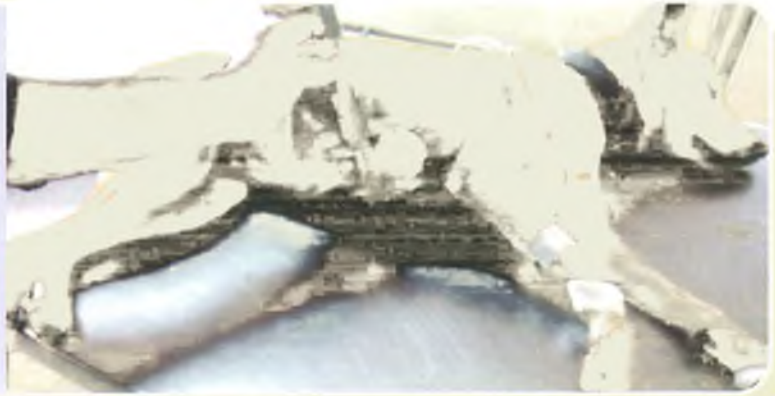
The anglers had to catch fish using a rod and reel and also a net or other traditional methods.

The anglers were divided into two groups. The first group was to catch fish using a rod and reel and the second group was to catch fish using a net or other traditional methods. The anglers were given a chance to catch fish using a rod and reel and a net or other traditional methods. The anglers were given a chance to catch fish using a rod and reel and a net or other traditional methods.

GLIMPSES OF VARIOUS ACTIVITIES OF THE UNIVERSITY



GLIMPSES OF VARIOUS ACTIVITIES OF THE UNIVERSITY



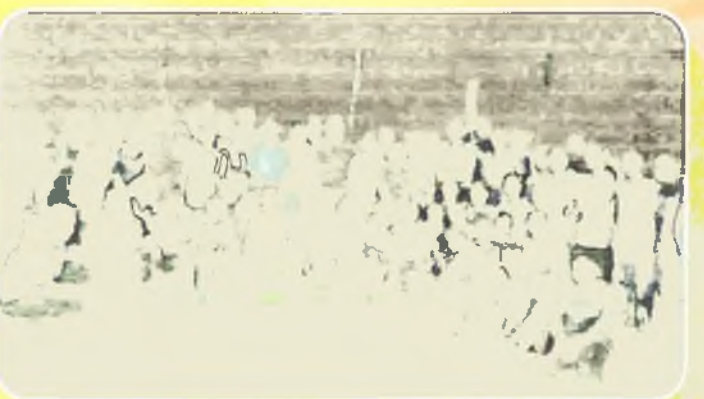
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GIMPSES OF VARIOUS ACTIVITIES OF THE UNIVERSITY

GLIMPSES OF VARIOUS ACTIVITIES OF THE UNIVERSITY



GLIMPSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY

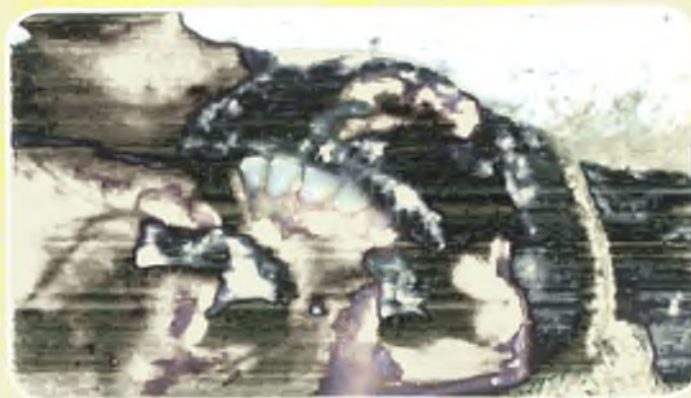
KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY, BIALAK
DAIRY SCIENCE COLLEGE, HEBBAL, BANGALORE - 560024



Training programme on
"Operation, Care and Maintenance of Dairy Processing Plant"



GLIMPSSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY



GLIMPSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY



GLIMPSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY



GLIMPSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY



Breed Saviour Award awarded at SEVA, Madhurai



Handing over of Mudhol Hound to Indian Army for feasibility trials



Animal Health Camp conducted at Htagali on 13.03.2016



Micro Chipping to Mudhol Hounds in association with Karnataka Society



Dog race conducted at Htagali on 13.03.2016

GLIMPSES OF DIFFERENT ACTIVITIES OF THE UNIVERSITY



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